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CIMdata News

CIMdata to Host a Free Webinar on How Bridging Information Silos Can Improve Product Decisions

20 August 2020

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) strategic management consulting and research firm, announces an upcoming free educational webinar, “Bridging Information Silos to Improve Product Decisions.” The webinar will take place on Thursday, 10 September 2020, at 11:00 a.m. (EDT) and will last for one hour.

Contextual views combining relevant data from different information silos improve decision making within a company. Finding the data when it is outside your immediate responsibilities can be challenging. Making sure the data is from a stable configuration is also challenging; was it from an early release or a pilot or somewhere in between?

Process orchestration and shared configurations are critical elements for improving product development. This webinar will consider the state of the digital engineering practice regarding sharing configurations and how process orchestration across an organization may be accomplished. With the continued advancement of computers and applications, the webinar will conclude with some ideas and projections about what to expect next.

This webinar will help attendees:

Better understand digital technologies that can speed and improve decisions.

Learn about the role of Process Orchestration—standard work, the basis for improvement, and compliance.

Gain an understanding of the evolution of Product Lifecycle Management, emphasizing incremental improvements.

According to Craig Brown, a CIMdata executive consultant, and the host for this webinar, “Frequency mismatches from different parts of an organization makes decision management more challenging. Applications tuned for capital investment, mechanical prototype build shops, and software only features have difficulty exchanging information. This leads to distinct, often separated, silos of data.”

Over his 30-year journey at GM, Mr. Brown was responsible for PLM Portfolio Planning and held assignments in embedded software, systems engineering, CAE Methods, and process improvement. He led engineering, and IT teams developing tools to improve product and manufacturing engineering. These teams received patents, engineering awards, and records of invention, including using OnStar® to monitor and report vehicle diagnostics. Before joining GM, he spent 12 years in the Aerospace/Defense industry focused on control systems and tools to help develop systems for guidance, navigation and control, and signal processing systems. He was a member of the team that invented VHDL and led one of the first commercial tool applications. Mr. Brown has a talent for organizing across industry sectors to distill common requirements, which can help streamline tools and standards development.

This webinar will be useful to executives, directors, and managers responsible for product development, manufacturing, quality, and service; PLM team leaders and team members; product managers; IT leadership and staff; solution providers; and anyone who wants to learn about how to manage PLM when a disruption happens.

During the webinar, attendees will have the opportunity to ask questions about the topics discussed. To

find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/bridging-information-silos-to-improve-product-decisions>. To register for this webinar, please visit <https://register.gotowebinar.com/register/5397982369748918018>.

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Acquisitions

Autodesk Completes Acquisition of AI-Powered Software Provider Pype

18 August 2020

Autodesk, Inc. has completed the acquisition of Pype and its portfolio of cloud-based software solutions for the construction industry. This acquisition and resulting product integrations will provide additional value for Autodesk Construction Cloud users, allowing general contractors, subcontractors and owners to automate workflows such as submittals and project closeout to increase overall productivity and reduce risk throughout the project lifecycle.

Pype's solutions use artificial intelligence and machine learning to extract and process data from project plans and specifications. The resulting data provides unprecedented insights on project management workflows, helps teams identify actionable information to close communication gaps between design, construction and operations teams, and ensures a higher level of quality, efficiency and risk management on projects.

Pype marks Autodesk's fourth construction-based acquisition in recent years, joining the acquisitions of Assemble in July 2018, PlanGrid in December 2018 and BuildingConnected in January 2019.

"We are thrilled to officially welcome the Pype team to Autodesk," said Jim Lynch, vice president and general manager of Autodesk Construction Solutions at Autodesk. "Pype's machine learning capabilities can be applied to multiple field and office workflows, and directly supports our aim to consistently provide customers with the most advanced construction project management technology. The acquisition of Pype is representative of our ongoing commitment to the construction industry, and our continued vision of how cloud-based, collaborative technology can drive the era of connected construction."

"Pype's mission was always to help construction teams avoid seemingly ubiquitous challenges facing a document-intensive industry – inefficient workflows, disjointed collaboration, schedule delays, cost overruns and more," said Sunil Dorairajan, CEO and co-founder of Pype. "Autodesk Construction Cloud offers a powerful solution for teams to tackle these difficulties while managing the entire building lifecycle, from design through operations. We remain committed to supporting both existing and new Pype customers regardless of the technology stack they use and are excited to continue our journey with Autodesk to help further increase productivity and decrease risk on construction projects."

Autodesk plans to integrate Pype within its Autodesk Construction Cloud portfolio, which encompasses best-in-class solutions Assemble, BIM 360, BuildingConnected and PlanGrid. Pype's product suite includes:

AutoSpecs: Automates a highly manual process, using AI to quickly read and extract specs to generate submittal logs with a high level of accuracy

Closeout: Accelerates the construction closeout process via an easy-to-use, centralized dashboard and automated document collection

eBinder: Automatically converts hundreds of closeout documents into a fully indexed, hyperlinked and

searchable turnover file

SmartPlans: Extracts submittals, product schedules and contract compliance requirements from drawings

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Company News

Acorn AI, by Medidata Launches Commercial Data Solutions

20 August 2020

Medidata, a Dassault Systèmes company, announced that SHYFT Analytics will officially be adopting the Acorn AI, by Medidata brand. The innovative commercial and data analytics technologies and services valued by SHYFT customers will be operating as the Commercial Data Solutions (CDS) team at Acorn AI. SHYFT Analytics was acquired by Medidata in 2018.

Acorn AI, built on data, AI technologies and domain expertise developed over the last 20 years by Medidata, helps life sciences companies answer the questions that matter. Current solutions include:

Intelligent Trials to improve study success by providing real-time operational insights

Synthetic Control Arms for diseases where a randomized control is not feasible

Trial Design that brings together insights from historic clinical trials and contemporaneous real-world use to improve overall probability of success

Commercial Data Solutions that help therapies accelerate launch and peak patient adoption

“We are excited to bring our combined capabilities to customers under a unified Acorn AI brand,” said Sastry Chilukuri, president, Acorn AI by Medidata. “Scientific breakthroughs continue to create more precise drugs that target specific patient characteristics. This is changing the commercialization paradigm, connecting R&D and Commercial in new ways. Our live platform provides industry leading capabilities to combine Clinical and Real-world insights and help customers accelerate their therapies to patients.”

Acorn AI’s Commercial Data Solutions team is led by Bruno Lempers, who was previously CEO of Inflexion, a technology software SaaS solutions company with clinical assessment tools, Real World Clinical Data and predictive analytics used by healthcare organizations, providers, pharmaceutical companies and regulatory authorities in the space of substance use disorders, like opioid addiction.

Medidata is a wholly owned subsidiary of Dassault Systèmes, which with its 3DEXPERIENCE platform is positioned to lead the digital transformation of life sciences in the age of personalized medicine with the first end-to-end scientific and business platform, from research to commercialization.

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Fujitsu Reimagines Path to Post-Covid Prosperity with Global Initiative

20 August 2020

Fujitsu is enabling enterprises to reimagine their post-Covid future with a global campaign highlighting how enterprises can not only survive but prosper as they adapt to new business realities.

CIMdata PLM Late-Breaking News

Fujitsu is working hand in hand with customers to adjust to the rapid shift to remote working, with the Covid-19 pandemic having clearly accelerated the importance of digital transformation - putting the topic on the top of the business agenda for organizations of all sizes, and at all levels of digital maturity.

As Fujitsu supported customers around the world in adjusting to new working styles, service levels in its eight Global Delivery Centers never skipped a beat. Fujitsu maintained service level agreements against a 19% surge in customer requests for support(1) - with enormous increases in calls for support around setting up VPNs and establishing secure remote access to corporate systems.

Now Fujitsu is outlining its vision of the road to prosperity - with a new Reimagine initiative highlighting the digital tools and services that Fujitsu is providing to help shape customers' future business outlook in three key areas: customer experience, everyday operations, and employee experience.

Organizations looking at post-Covid recovery must be able to deliver a digital employee experience that acknowledges the new realities. Employee experience should be at the heart of decisions and investments that will determine the future normal - as well as empowering employees to remain productive when working from anywhere, on any device, at any time.

Taeko Yamamoto, Chief Marketing Officer at Fujitsu says: "Businesses are facing an increase in complexity and uncertainty in the post-Covid world, combined with an increase in pace. For any organization looking not only to survive but to thrive in the post-Covid world, reimagining business operations is key. Getting back to growth quickly requires businesses to apply the hard lessons of the lockdowns - to expand, scale and build on the best practices they were forced to adopt, to ensure they emerge stronger, able to pivot quickly and deal with any form of unforeseen disruption in the future. Enabling our customers to achieve this is at the heart of Fujitsu's Reimagine initiative."

Delivering the best possible service to end customers is a priority

For Fujitsu's customers, improved decision-making is key to reimagining operations to deliver the best possible service - and data is critical to this. Organizations can reap the benefits of automation through establishing or upgrading secure but agile foundations to automate processes and procedures capable of serving the demands of new business models - to deliver the experiences that customers are demanding.

Automation enables retailers to present only products that are in stock, to set customer expectations on back-order items through showing time to availability, and to immediately initiate offers on smart production lines. Manufacturers, meanwhile, can automatically order new stock when threshold levels are reached or 'hard-to-predict' spikes in demand are forecast. In the financial services sector, automation enables real-time advice, from everyday transactions to major life decisions, like mortgages. In working with customers to drive automation, Fujitsu focuses on augmenting traditional processes and supply chains while also making them resilient to future disruption or unpredictable events, as well as ensuring that pace and agility become the norm in everything an organization does - simultaneously handling the underlying complexity involved with adopting new business models, technologies and finding new ways of working on top of - and to replace - existing models.

When it comes to employee experience, Fujitsu is enabling customers to benefit from the upside of

lockdown - transferring this new business agility to other situations that may require widespread remote working. In future, regardless of the predicament, organizations will be able to just carry on working. For organizations still exploring their options, Fujitsu's Results Chain investment optimization tool balances investment costs against business benefits.

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HCL Launches Hackathon To Identify Long-Term Solutions To The COVID-19 Pandemic

21 August 2020

HCL Technologies announced a multi-phase hackathon, “Better Health Hackathon: #CodeforCOVID19,” to crowdsource technology innovation to find solutions for the immediate and long-term societal impact of the COVID-19 pandemic, including pandemic containment and prevention; diagnosis, treatment and therapeutic management; recovery and return to normal; and systemic solutions for future crises.

As part of the program, HCL has partnered with Microsoft and International SOS, the world's largest medical and travel security services firm, who are providing business and technical oversight to the contest and feedback to team entries. In addition, the Better Health Hackathon is bringing together a wide-ranging and prestigious group of executives and companies, across multiple industries, to serve as judges and advisory panel members. This includes scholars from Johns Hopkins University, University of Cambridge, Tuck School of Business, The University of Queensland, Indian Institute of Technology, Kanpur, and subject matter experts from HCL.

The competition is open to technology innovators, entrepreneurs and problem solvers from the global developer community. To date the Better Health Hackathon has received more than 7500 registrations from 600+ unique organizations and academic institutions spanning 350 locations across 52 countries. To engage top talent in the coding community, the Hackathon is partnering with BeMyApp to leverage their expansive network of coders and tech enthusiasts. The Hackathon is open to eligible participants who are at least 18 years of age.

“The unique capabilities and strength of HCL’s global ecosystem of partners, coupled with the immense talent and best minds from the tech, developer and entrepreneur communities, enables us to make a significant contribution during the COVID-19 pandemic,” said Arthur Filip, Executive Vice President, Sales Transformation & Marketing, HCL Technologies. “Technology has a big role to play in alleviating the challenges brought on by the pandemic, addressing solutions for successful containment and the reorientation of business and society. We are honored to curate a very enthusiastic, committed and deeply talented global community to help us in this important work.”

“Neeraj Balani, Managing Director, International SOS, India, “We are honored to be part of this initiative with our customer, HCL Technologies, and are confident that the outcomes will provide breakthroughs and benefits for employee health and wellness, which ultimately has a large impact on empowering business resilience, continuity and sustainability.”

Takuya Hirano, VP, Partner Services, Microsoft Corp., said, “This hackathon presents an opportunity for technology experts and innovative thinkers to showcase how advanced technology can help identify solutions to challenging problems facing societies. Technology can serve as a vehicle to drive new solutions that help improve the wellbeing of our communities and prepare us for future health challenges.”

Specifically, the HCL Better Health Hackathon: #CodeForCOVID19 will address the following areas:

Prevention and containment: #StayAtHome

This track explores solutions that better safeguard the most vulnerable in our communities, better communicate credible information, and help people better cope with the challenges of self-isolation. This track will examine: How can technology aid efforts to #FlattenTheCurve by offering a better quality of life to encourage people to #StayAtHome.

Diagnosis, treatment & therapeutic management

This track focuses on ways to help better protect and equip frontline healthcare workers and first responders, and to better serve those individuals and organizations seeking treatments and cures for COVID-19 with technology solutions.

Recovery and return to normal

This track dives into the next phase of society after shutdown orders are removed. In the absence of a tested and available vaccine or therapeutic treatments against COVID-19, how can technology safeguard communities against a relapse of an outbreak, once social distancing and other restrictions are lifted throughout the world, allowing people to return to public spaces.

Systemic solutions for crises and pandemic management

This track ideates innovative uses for next-gen technologies to plan for the long-term implications of COVID-19 and better prepare for future global pandemic-related challenges across healthcare and public services ecosystems.

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Mastercam Retains Top Ranking Worldwide

21 August 2020

More shops and schools invest in Mastercam than any other CAD/CAM software package in the world. According to CIMdata, an independent research firm specializing in the NC industry, Mastercam is the number one CAM software used worldwide for 26 years in a row. In the latest report, Mastercam retained the top spot for CAM software in three categories: industry, education, and support network.

Mastercam topped the list in both the educational and industrial categories, with nearly twice as many installed seats as the nearest competitor*.

“With more shops using Mastercam and more schools teaching Mastercam, students are being prepared for a fluid transition to the job market with practical skills and reduced learning curve,” says Meghan West, President and CEO of CNC Software, Inc. “This is a win-win situation for education and industry to contend with the skills gap and fill the glut of jobs available in manufacturing.”

If you run a shop, using the most widely used CAD/CAM software is important. You want reliable code to run your machines at maximum performance for precision and efficiency, and you want access to training and support to keep your shop optimized and business growing.

If you work in education, you want to prepare students with skills they can transfer to further education and gainful employment. You appreciate access to extensive training, curriculum, and projects from Mastercam and authorized partner providers.

If you are an individual, using the top CAD/CAM software is important because there is a high demand for skilled workers in manufacturing companies. You can find training and education opportunities to learn Mastercam since it is also the most widely taught, and you can find a job easier with Mastercam skills.

West continues, “Mastercam provides incomparable access and support for shops and programmers. With the largest local Reseller support network of any CAM developer, there is always an expert available to help you get the most benefit from our software.”

Mastercam is developed based on evolving technology, industry trends, and feedback from customers.

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New TCS Solution Helps Enterprises Jumpstart Return-to-Work Programs Within Four Weeks

19 August 2020

Tata Consultancy Services announced the launch of TCS Safe Workplace, a return-to-work solution that helps global enterprises quickly transition to a safe, secure and productive work environment.

As the COVID-19 crisis stabilizes, employees expect to return to a work environment they can trust. Enterprises are creating new policies to address mandated self-attestation, contact tracing and social distancing regulations, while also ensuring compliance. Reopening the workplace is particularly complex for large enterprises with multiple business lines and/or multiple jurisdictions and languages.

To address this pressing need, the TCS Safe Workplace was launched, leveraging TCS’ technology expertise and domain capabilities in HR processes, business continuity, facility management, and employee safety and well-being.

TCS Safe Workplace uses existing enterprise platforms to design and create a workplace command center that assesses the readiness of employees, the work environment and the workforce model; automates the return to work processes, including contact tracing, shift management, and workspace planning; and monitors critical risk factors.

Additionally, the solution helps companies manage self-attestation from employees, awareness communications, and grievance resolution. It identifies pandemic zonal hotspots and enables fact-based decision-making, so an organization can proactively adapt its operations to avoid issues that may affect its employees and customers.

TCS Safe Workplace enables enterprises to jumpstart return-to-work programs within four weeks and scale support to manage thousands of employees across various locations. Several global enterprises, including a US-based financial information and analytics company and a leading global computer parts manufacturer, have engaged TCS to deploy the solution to support their workplace reopening initiatives.

“As our customers determine the best return-to-work approach for their employees’ safety, security and basic health needs, TCS Safe Workplace helps them manage the enormity and complexity of this undertaking, and build resilience into their operations. In as little as four weeks, they can create a safe workplace for returning employees, and focus on growing their business,” said Ram Subramanian, Global Head – Human Capital Practice, Enterprise Application Services, TCS.

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PROS Achieves the 2020/2021 Inner Circle for Microsoft Business Applications

17 August 2020

PROS® , a provider of AI-powered solutions that optimize selling in the digital economy, has achieved the prestigious 2020/2021 Inner Circle for Microsoft Business Applications. Membership in this elite group is based on sales achievements that rank PROS in the top echelon of the Microsoft’s Business Applications global network of partners. Inner Circle members have performed to a high standard of

excellence by delivering valuable solutions that help organizations achieve increased success.

“We are honored to be named to the Microsoft Inner Circle for a second year in a row,” said John Connolly Jr., PROS Vice President, Global Alliances and Partners. “PROS and Microsoft solutions are better together, delivering exceptional value in how we solve business challenges for our customers. Whether it is through Microsoft Inner Circle, Microsoft ISV Connect or other joint development initiatives, we continue to help customers maximize investments in Dynamics 365, spur Azure adoption and further foster productivity as businesses globally redefine a new normal.”

This recognition of Inner Circle for Microsoft Business Applications coincided with Microsoft Inspire, the annual premier partner event, which took place July 20-21, 2020. Microsoft Inspire provides the Microsoft partner community with the opportunity to learn about the company’s road map for the upcoming year, establish connections, share best practices, experience the latest product innovations and learn new skills.

“Each year we recognize Microsoft Business Applications partners from around the world for delivering innovation and driving unsurpassed customer success,” said Cecilia Flombaum, Microsoft Business Applications Ecosystem Lead. “Our Inner Circle members are chosen based on their business performance as well as capabilities as an organization, whether that’s creating IP, developing solutions, or having an industry leading focus on digital transformation. Microsoft is honored to recognize PROS for their achievements this past year, their dedication to our customers, and their innovation around the Microsoft Cloud.”

PROS Pricing, Selling and Commerce solutions make it possible for companies to price, configure and sell their products and services in an omnichannel environment. Hosted on Microsoft Azure, PROS solutions deliver speed, precision and consistency for customers transforming their businesses through digital selling initiatives to ensure long-term leadership in their respective markets.

“The relationship we have built with Microsoft over the years is a true partnership that continues to fuel PROS market and growth strategy,” continued Connolly. “We look forward to exploring all avenues to further drive digital transformation globally.”

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PTC Makes Enterprise Version of Onshape Education Suite Available Free of Charge

17 August 2020

In advance of the 2020-2021 school year, PTC has made the Onshape® Education Suite’s newly-released Enterprise plan available free-of-charge for K-12 schools and universities that register through November 20, 2020. The newest version of the cloud-based, remote learning suite is offered alongside the Onshape Education Standard plan to help alleviate the burden experienced by educational STEM programs during the COVID-19 pandemic.

The Onshape Education plans are the educational versions of PTC’s Software as a Service product, designed to enable computer-aided design (CAD) activities in a remote learning environment. The Education Standard plan has been free to educational institutions since 2016 and is available to students and educators who want to use professional-grade CAD that is completely online. The newly released Education Enterprise plan builds upon the Standard plan with features designed to enable universities and K-12 schools to launch, manage, and scale CAD activities across entire institutions.

“With online education being a necessity right now, I am making the full switch to Onshape so that my students don’t lose any instructional time due to software constraints if they have to learn remotely from

home,” said David Vinopal, Technology Education Teacher and Department Chair, Derry Area School District, Pennsylvania.

He added, “Using the Onshape Education Enterprise plan will help me manage all of the students whether they are physically in the school building or working from home. Since there is no major installation or download required, I am pleased to know that my students will be able to log into the software and begin learning on day one.”

The Onshape Education Enterprise Plan is easily scaled across large classes, departments, and institutions, and as a cloud-based platform, it requires no downloads, installs, or upgrades. Platform analytics provide visibility into student usage and activity, and administrative features allow educators to easily manage and share permissions within the institution's private domain.

“As a parent of two school-aged children myself, it is clear this school year will be unlike any other,” said Kathleen Mitford, Executive Vice President and Chief Strategy Officer, PTC. “By providing large-scale educational institutions with access to the Onshape Education Enterprise plan free-of-charge, we hope to enable teachers to continue their STEM-based, CAD lesson plans, whenever and wherever needed.”

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SAP Blog - Energy Investors Build Sustainable Future Combining IoT and AI

20 August 2020

Energy investors in search of resilience are rediscovering the power of the Internet of Things (IoT) and machine learning to guide data-driven decisions in the face of an increasingly volatile economic environment.

Much has happened since I first wrote about the cloud-based IoT platform from Kaiserwetter Energy Asset Management called ARISTOTELES.

“We’re seeing strong interest from investors who want to stay ahead of ongoing shocks related to the COVID-19 pandemic, as well as all the other variables that impact the energy industry,” said Hanno Schoklitsch, chief executive officer (CEO) and founder at Kaiserwetter Energy Asset Management. “Our customers have been super astonished when they’ve seen how they could use applied data intelligence on a daily basis to benchmark the performance of the assets they have invested in and predict production outcomes of renewable energy facilities throughout the world at any given time.”

Machine Learning and AI Fuel Business Insights

Designed as an executive-level dashboard, ARISTOTELES aggregates, structures, and correlates technical and financial data from wind farms and solar parks. The platform enriches this information with data from third-party sources, such as meteorology or the electricity market. It is built on SAP Cloud Platform and uses a number of SAP solutions, including SAP Internet of Things and SAP Analytics Cloud.

The latest version surfaces relevant insights from SAP Data Intelligence to give financial institutions, banks, and other investors the full picture of what is taking place in and around their assets and credit loan facilities. Machine learning algorithms use facility data to perform an early failure detection, allowing investors to make the right decisions for maximizing returns and banks to better manage their debt-service coverage ratio.

“Connecting IoT with AI means that there are basically no limits to the amount of real-time and trend data we can integrate and analyze on our platform,” Schoklitsch said. “Customers have at their desk the

information they need to maximize the performance of their investments every day.”

Sustainable and Profitable Business

Kaiserwetter’s co-innovation with SAP began about five years ago, and this year ARISTOTELES won its second SAP Innovation Award. In many ways, the platform has evolved to epitomize SAP’s strategy around business that can be both sustainable and profitable. Schoklitsch said that German banks have begun pilot projects to identify credit risks and get ahead of a highly changeable market.

“Sustainability is the only way forward, and sustainable finance is part of that push,” he said. “Weather forecasting is among the crucial issues that impact business in many aspects. Using AI and SAP Data Intelligence, our platform can provide more reliable predictive analytics based on detailed data coming from the IoT layer in our system architecture.”

Early Warning Signals Drive Better Decisions

Originally launched to help investors and local renewable and affordable energies – especially in emerging countries – ARISTOTELES is now at the forefront of informed decision-making platforms, supporting all stakeholders involved in renewable energy investments.

“We’re just at the start of what AI can do to help people make better predictions about energy equipment, like the power of wind turbines in the context of weather forecasts or deviations that constitute early alerts,” Schoklitsch said. “Customers also have more benchmarking possibilities from integrated real-time data for investment performance comparisons against their own financial KPIs and peers. For example, investors can predict power production levels for selected time periods at specific locations around the world, and banks can identify potential distressed assets prior to a default situation.”

Coronavirus No Match for Algorithms

It is not news that accurate, real-time data is more important to investors in an incredibly volatile economic environment. What is new are innovations like ARISTOTELES that use algorithms and connected data to help people get the jump on fast-changing trends and make better investment decisions. Having the right insights from relevant data is still among the greatest competitive business advantages.

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Tech Soft 3D and OPEN MIND Collaborate on Powerful CAM Solutions

19 August 2020

OPEN MIND Technologies AG and Tech Soft 3D announced that HOOPS Exchange, the industry’s fastest and most accurate CAD data access and reuse technology for manufacturing and architecture, engineering and construction (AEC) workflows, will be integrated into hyperCAD®-S and hyperMILL® to ensure that all CAD and Product Manufacturing Information (PMI) data are transferred seamlessly between applications.

“Tech Soft 3D is a trusted, reliable development partner who helps us implement specific requirements and accommodate customer requests,” said Dr. Josef Koch, CTO at OPEN MIND Technologies, AG. “This kind of responsiveness is critical in our industry, as well as interoperability with multiple CAD formats – HOOPS Exchange is the leading product in this area and was an easy choice for us. We are very happy to be able to offer our customers the ability to work with any CAD file type now, without any loss of data integrity when sharing files.”

hyperMILL® is a modular complete CAM solution for 2.5D, 3D, 5-axis, HSC/HPC, and mill-turning processes, and also includes special applications and highly efficient automation solutions. The CAM software provides technology-leading geometry analysis and tool path calculations. There are specialized routines designed for efficient programming and machining of these components on 5-axis milling or mill-turn machines. Robust CNC postprocessors are also provided to assure strong communication to machine tool controllers.

“Digital transformation is happening at lightning speed within the manufacturing industry and we are committed to helping our partners, such as OPEN MIND, keep pace with this rapid momentum,” said Lionel Vieilly, Product Manager at Tech Soft 3D. “Fast access to the full integrity of data, being able to use that data without the need for an additional translator, extreme performance with low memory usage – these are all paramount to quickly building robust, sophisticated 3D applications and we are proud to be the ones our partners look to as the gold standard.”

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Wipro wins Data Estate Modernization 2020 Microsoft Partner of the Year Award

17 August 2020

Wipro Limited announced it has won the Data Estate Modernization 2020 Microsoft Partner of the Year Award. The company was honoured among a global field of top Microsoft partners for demonstrating excellence in innovation and implementation of customer solutions based on Microsoft technology.

Jayant Prabhu, Vice President and Global Head, Data, Analytics and AI, Wipro Limited said, “It is a great honour to be recognized as Microsoft’s Partner of the Year for Data Estate Modernization. Transforming data estates to be nimble and agile is a critical step for an organization to be an Intelligent Enterprise. Powering superior AI-driven experiences requires enterprises to leverage open source technologies in their cloud transformation journey to provide cutting edge solutions to their customers. Wipro's experience in transforming the data landscape coupled with Microsoft's leadership in providing cloud platform is helping organizations in various industries accelerate their Cloud journey. Our automated database migration solution from On Premise to Open Source on Cloud will accelerate customer’s transformation into an Intelligent Enterprise.”

The Microsoft Partner of the Year Awards recognize Microsoft partners that have developed and delivered exceptional Microsoft-based solutions during the past year. Awards were classified in to several categories, and honorees chosen from a set of more than 3,300 submitted nominations from more than 100 countries worldwide. Wipro was recognized for providing outstanding solutions and services in Data Estate Modernization.

The Data Estate Modernization award was presented to Wipro for the successful migration of legacy on-premise databases to Open Source databases on Azure using Wipro proprietary tools such as wOraPG and Data Reconcillator for a Swiss customer.

“It is an honour to recognize the winners and finalists of the 2020 Microsoft Partner of the Year Awards,” said Gavriella Schuster, corporate vice president, One Commercial Partner, Microsoft. “These partners go above and beyond, delivering timely solutions that solve the complex challenges that businesses around the world face – from communicating and collaborating virtually to helping customers realize their full potential with Azure cloud services, and beyond. I am proud to honour and congratulate each winner and finalist.”

Wipro and Microsoft have been working together for more than two decades to help enterprises of the future to drive business acceleration, enhance customer experience and provide connected insights. Wipro is aligned with Microsoft's cornerstone philosophy of digital transformation across business applications, modern workplace and intelligent cloud. Wipro launched its Microsoft Business Unit in March 2020, which focuses on the development and evangelization of solutions leveraging Microsoft's enterprise cloud services. Wipro has also adopted Azure Cloud for its own digital transformation journey.

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Events

AVEVA to Host Second Global Customer Event in 'AVEVA World Digital' Series

21 August 2020

AVEVA announced the speakers for its second A World Digital virtual customer event, taking place on the 25th - 26th August, 2020. The event is aimed at all industrial professionals including CXOs, department heads, directors and managers interested in innovative technology solutions for building organizational resilience and laying the foundation for digital transformation.

Themed 'Agile Opportunities in Our Reconnecting World' the upcoming digital event will once again feature keynotes and break-out presentations this time delivered by AVEVA CEO Craig Hayman, Çağlayan Arkan, Vice President, Manufacturing Industries, Microsoft, Darren Martin, Chief Technology Officer, Wood Group, Dirk Holbach, SVP Laundry & Home Care, Henkel and Sebastien Even, Digital Manufacturing Lead, Nestlé Beverage among others. Both days will culminate with interactive panel sessions featuring an impressive line-up of AVEVA and Industrial Industry experts. Day one's panel will be focused around taking the digital twin from engineering to operations whilst day two's panel will discuss engaging the connected workforce of the future. The AVEVA World Digital Expo featuring on-demand product demos also makes a welcome return.

"The inaugural AVEVA World Digital in June 2020 demonstrated the great appetite that global leaders and key decision makers, in the industrial sector, now have for virtual events, in our new operating environment. Leaders are increasingly realizing the benefits of being able to participate from the comfort of their desks and experience the latest technology innovations delivered straight to their device of choice," commented Lisa Johnston CMO at AVEVA.

"As we observe the new working practices teams are exploring, there are many lessons to be shared, as businesses of all sizes leverage enabling technologies like digital twin, Cloud and artificial intelligence to accelerate their path to Industry 4.0. Selecting the best technology solutions helps differentiate thriving organizations from those barely surviving in our reconnecting world. AWD offers the opportunity to review and explore some of the most innovative solutions, and that's why we're delighted to welcome more than 4000 delegates this August," Johnston concluded.

Register for AVEVA World Digital today at: <https://sw.aveva.com/aveva-world-digital>

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TECHNIA Announces Global, Virtual Life Sciences PLM Innovation Forum

17 August 2020

TECHNIA announced that they are launching their first Life Sciences PLM Innovation Forum Virtual

CIMdata PLM Late-Breaking News

Experience. This follows the success of the PLMIF Virtual Experience, which launched 28th April 2020 and brought together more than 2,000 industry experts to share, discuss and debate the latest innovations in Product Lifecycle Management.

Launching on 10th September, the Life Sciences PLMIF Virtual Experience will bring together world-leading industry experts from Medical Devices and Biopharma to share, discuss and debate, “Digitalization for the Future of Sustainable Healthcare”.

Digitalization can provide Life Science organizations with access to shareable, actionable, real time data which enables efficient collaboration across the globe. With the move toward a personalised, value- and data-based Healthcare system, we can begin restructuring to become more economically and environmentally sustainable. We can begin to develop more accurate, agile, efficient and comprehensive care – from detection and diagnoses to treatment and cure.

“TECHNIA has twenty-four years of experience securing regulatory compliance and improving time to market for new products and treatments that now improve quality of life for patients across the world. We are working closely with Dassault Systèmes as a global, strategic partner on Life Sciences projects implementing a vast portfolio of applications. And I’m pleased to announce this event knowing that it will further strengthen an expert community through networking, knowledge-sharing and healthy debate focusing on the development of digital solutions for the Life Science industries.”

– Jonas Gejer, CEO TECHNIA.

The full agenda will run from 8am-5pm CEST and 9am-6pm PDT comprising of TECHNIA customer and partner presentations, panel discussions and digital booths, followed by interactive sessions and demonstrations on request.

Key Speakers include:

Nina Hakacova (MD, Paediatric Cardiologist, Associate Professor, Skåne University Hospital),

Gerd Niehage (CIO, B. Braun Group),

Linda Vitell (Project Manager, Mölnlycke Health Care),

Claire Biot (VP Life Sciences Industry, Dassault Systèmes),

Gian Paolo Bassi (CEO SOLIDWORKS, Dassault Systèmes)... and many more

Register today at : lifesciences.plmif.org

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Update on GPDIS 2020

21 August 2020

The GPDIS 2020 event was scheduled to be held in person this coming September. As a GPDIS partner, CIMdata is sharing the following information from the leadership of this event. While the event will not meet in person until 2021, a series of live virtual sessions will take place in the fall. As plans progress, we will continue to update you.

From GPDIS Leadership

Fellow GPDIS stakeholder:

GPDIS prides itself on being a recognized industry leader for solving complex integration challenges with a focus on Technical Excellence, Integration Best Practices, and Collaboration. When it comes to Collaboration, we know that the value of any event is the rich exchange between participants in an

CIMdata PLM Late-Breaking News

environment specifically designed to bring out the creative potential of all who participate. Unfortunately, that is not where we find ourselves today. With the ever-evolving global pandemic and the many challenges it has surfaced, the leadership of GPDIS has elected to defer the event to the same time in 2021.

I can tell you that we did not make this decision lightly. The planning team that forms the core of the event worked right up until the decision to find a way to bring a virtual option to the table that would bring value to you, the critical industry stakeholder. Knowing that you have a choice, we wanted to ensure that choosing GPDIS 2020 meant you would receive a high quality, high value experience that you walked away from knowing you had invested your time and money well.

In the end, we felt that we could not meet that expectation despite all the options for a virtual event. The value of GPDIS is important to us as I know it is important to you. Therefore, we will start planning for GPDIS 2021 with the hope that we will find the world in a better place where we can meet again. In the meantime, we will be sharing a plan for a series of webinars showcasing some of what we had planned for GPDIS 2020. Be looking for that in your email in the coming weeks.

Finally, I want to thank you for your continued interest and support of GPDIS and its mission of bringing OEMs, suppliers, solution providers, and standards bodies together for technical excellence. This event is for you. To the planning team and the executive leadership that helps make this event happen, my sincere appreciation and thanks for all the hard work behind the scenes. Your contribution is immeasurable, and I look forward to working with you as we plan for a spectacular GPDIS 2021!

Stay safe and take care,

Kenny Swope

Chair GPDIS 2020

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VISI, the Solution for Stamping and Cutting Processes, at Virtual Show

21 August 2020

Hexagon will present the new version of its specialised CAD/CAM software for moulds and press tools at the virtual e-micronora event, which runs from 22 to 25 September 2020.

VISI CAD:

Developments to the CAD Reverse module enhance the Reverse and Casting processes. The scanning operation has been improved with the shaded view, giving better and faster feedback. And Reverse projects now benefit from faster and more precise surface creation.

With Point Scanning, the shaded point cloud is now shown during the scanning operation, giving the operator an immediate view of what has been correctly scanned, and if anything is missing.

VISI PROGRESS

VISI Progress is dedicated to progressive die design and press tools.

Part Unfolding

To provide a powerful and complete solution to this new solid unfolding approach, additional features have been included for flanges and parts with non-linear bends. “The aim is to study and modify a part, preserving the links between the different unfolding steps,” says VISI Product Owner, Marco Cattaneo.

The Part Definition feature has been improved, giving better and faster part analysis, identifying the different face types, defining material, and setting linear bends unfolding. Different colours can be set, relating to different neutral fibre values, giving quick identification for unfolded linear bends and fibre value. “After automatically analysing the part, VISI 2021 can now edit the faces recognition, giving a warning description, meaning the user can better understand why an operation has failed, making it easier to decide a different approach.”

A new feature manages flange unfolding on the analysed part, and shows the result in preview mode, so the operator can evaluate the result and set different parameters, while preserving the link with the original part. This automatically recalculates the flanged part, meaning all linked parts can then be rebuilt in reference to a modification on the original.

A new chamfer creation option has been added when creating inserts, offering a logical and fast process during creation.

VISI 2021 provides a new direct link between VISI Progress and the incremental simulation software, Stampack Xpress, to evaluate the stamping processes defined in VISI. Stampack's simulation results can be used to modify or validate the processes, which saves time in the design (MAP) and validation of the tooling.

Finally, the loading speed of standard elements has been doubled, enhancing VISI Progress’s reputation as being the essential software for designing press tools.

Marco Cattaneo says combining numerous aspects of VISI Progress – including: the new link when creating strip forming processes; the incremental simulation with Stampack Xpress; the tool design module; and reverse engineering which allows the 3D files of the parts to be modified during the set-up, the software proves itself to be essential for designing press tools...

Looking ahead to MICRONORA 2021, Hexagon Manufacturing Intelligence teams will be on hand to demonstrate the very latest updates to VISI at that time.

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Financial News

Synopsys Posts Financial Results for Third Quarter Fiscal Year 2020

20 August 2020

Synopsys, Inc. reported results for its third quarter fiscal year 2020. Revenue for the third quarter was \$964.1 million, compared to \$853.0 million for the third quarter of fiscal 2019.

"Synopsys again executed very well in the third quarter, delivering record revenue, non-GAAP earnings per share and operating cash flow. We saw double-digit revenue growth across all product groups and strength in all geographies. Our intense, multi-year innovation push is driving increased momentum in product successes and production adoptions," said Aart de Geus, chairman and co-CEO of Synopsys.

"Even as the world navigates through the pandemic and economic challenges, global design activity and customer engagements are flourishing. Due to our very strong fiscal third quarter, confidence in our outlook and resilient business model, we are raising 2020 revenue, operating margin, non-GAAP earnings-per-share and operating cash flow targets."

GAAP Results

On a generally accepted accounting principles (GAAP) basis, net income for the third quarter of fiscal 2020 was \$252.9 million, or \$1.62 per share, compared to \$99.9 million, or \$0.65 per share, for the third quarter of fiscal 2019.

Non-GAAP Results

On a non-GAAP basis, net income for the third quarter of fiscal 2020 was \$271.9 million, or \$1.74 per share, compared to non-GAAP net income of \$182.5 million, or \$1.18 per share, for the third quarter of fiscal 2019.

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Implementation Investments

Accenture Helps Equinor Improve Business Operations and Increase Agility with the Cloud

21 August 2020

Accenture is helping Equinor, an international energy company, migrate its SAP® software environment to Microsoft Azure public cloud.

This transformational project supports Equinor’s business objectives to optimize IT costs and increase cost transparency by shifting to an agile, high availability and scalable platform for SAP systems.

Working closely with Equinor’s Cloud Management team, Accenture will migrate and manage their SAP systems from on-premise data centers to the Microsoft Azure cloud. This will help Equinor run IT operations in a reliable cloud environment that includes embedded security. Accenture will use myWizard, its proprietary intelligent automation platform, to automate processes across the enterprise.

Gunnar Presthus, Accenture’s global client account lead for Equinor, said, “Accenture is excited to support Equinor in its SAP journey to the cloud. This is a pre-requisite for digital transformation, enabling business resilience that is key to navigating a continually changing environment.”

Gjert Terje Gjersvik, SAP’s global account director for Equinor, said, “Working together with Accenture we are helping to simplify and accelerate our customer’s journey of moving their SAP systems to Microsoft Azure to help realize the benefits of the cloud.”

Kimberly Lein-Mathisen, general manager of Microsoft Norway, added, “This is a great example of Accenture playing an important role as a trusted partner, enabling Equinor to reach its goals. Equinor has an important role to play in innovation and in driving Norway’s sustainable growth, and we are very proud to have their SAP solutions running on Azure.”

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Accenture Wins Position on U.S. Air Force Strategic Transformation Contract

19 August 2020

CIMdata PLM Late-Breaking News

Accenture Federal Services (AFS), a subsidiary of Accenture is one of eight firms awarded a position on a contract to help the U.S. Air Force manage and execute enterprise-wide transformation efforts.

The indefinite delivery/indefinite quantity contract has a five-year ordering period, with a maximum value of \$990 million and was awarded by Air Force District of Washington, Secretary of the Air Force Enterprise Support Division for the Deputy Under Secretary of the Air Force, Management and Deputy Chief Management Office.

The Air Force defines transformation as fundamentally changing its systems processes, people and/or technology to achieve measurable improvements in efficiency and effectiveness and stakeholder satisfaction. Work under the contract includes organizational support for the Air Force Deputy Chief Management Officer as well as the Deputy Assistant Secretary for the Air Force Office of Business Transformation.

“We look forward to teaming with the Air Force as they accelerate the development and deployment of digital technologies, said Vince Vlasho, Accenture Federal Services Defense portfolio lead. “Through our deep experience in advanced technology implementations, AFS can help the Air Force advance its goal of enterprise-wide transformation in the years ahead.”

The services that Accenture would provide include digital solutions, the alignment of organizational models, and data-driven performance management across up to 10 Department of Defense (DoD) lines of business: contract/category management; financial management; information technology; acquisition/logistics/supply chain; healthcare; community services; human resources; real property; digital transformation; and the DoD 4th Estate.

“We are honored to have the opportunity to support the Air Force in its transformation efforts,” said Susan Lawrence, deputy director of the AFS Defense portfolio. “We will apply our experience in areas like digital innovation, workforce transformation and continuous process improvement to help increase Air Force readiness at all levels.”

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Clutch & Brake Xchange keeps The California Ag Industry Moving with the Help of ESPRIT

18 August 2020

As a factory-authorized Permco Build Center, Clutch & Brake Xchange has the capacity to machine-bare castings with three standards of SAE hydraulic ports. This special partnership enables the team to build and assemble nearly any combination of hydraulic gear pump the same day a customer places an order; rather than the six to eight-week turnaround time from the factory.

California’s Central Valley is an agricultural powerhouse, responsible for one-quarter of the food produced in the United States. Naturally, the region runs on tractors, trucks, and fluid power—and Clutch & Brake Xchange is one of the region’s most trusted suppliers for the vital parts this industry demands.

John Hitchcock joined his family’s business as an apprentice machinist three years ago. “I was a chef for 30 years but had to quit due to the extreme pressure. Joining the business was my brother’s idea—I had no clue what CAM was, so I just ran with it.”

John credits ESPRIT's renowned customer support with making his career transition as seamless as possible. "We piloted three software programs and determined that ESPRIT CAM's support was superior to that of any other companies. We have not been disappointed in the product, support, or service."

On the shop floor, John and the rest of the Clutch & Brake Xchange team work their magic on a Mazak Quick Turn 350MY, a Mazak VC-500C vertical machining center, a Mazak VCN-570 vertical mill, and a Haas TL3. Working primarily with aluminum, steel, and cast iron, John and his team use ESPRIT to replicate obsolete parts, like S-cams, that are vital to the heavy-haul industry.

An S-cam is a required part of a vehicle's braking system, most commonly trucks and other heavy-duty machinery. An S-cam has a shaft that can be up to 25" long and an S-shaped cam on one end. As the shaft turns, it connects the brake shoe with the drum to create friction and slow down the vehicle.

"Heavy-duty haulers were in need of an obsolete type of S-cam," says John. "My father, who began his career as a truck driver and heavy-duty mechanic, recognized that there was a need for an S-cam. Without it, trucks would either need to retrofit their brake systems or convert the braking system altogether, which is a major expense. These trailers, many valued at more than \$1 million, were essentially inoperable due to the strict safety guidelines outlined by DOT and state agencies. This S-cam was necessary to keep these trailers on the road without costly retrofitting expenses.

"I was tasked with developing the program for this essential part. I faced challenges and enlisted the help and expertise of [ESPRIT application engineer] Spencer Hallin. I got to meet Spencer at ESPRIT World, and since then he's been my mentor and friend. His support is spot-on and invaluable," says John.

Spencer is more than happy to help. "John is an extremely receptive learner who constantly strives to increase his skills in programming and in manufacturing. He is a pleasure to work with, and I really look forward to seeing what he can accomplish."

John is grateful for ESPRIT's versatility when it comes to effectively serving his customers. "Through my consultation with the ESPRIT engineers, I've learned that these parts are very complex," says John. "There is no blueprint for this work. I have to reverse engineer each S-cam CAD and CAM to the specs. I never know what kind of order is going to come in or how many will be needed."

Thanks in part to ESPRIT, John has been able to tackle other challenging projects, too. "We needed to make a hydraulic cap from billet aluminum," he says. "And we wanted to use one tool for two different operations to complete the project. Although it was one tool, we had to program the software to 'believe' that it was two different tools from the same pocket to make the product. [ESPRIT application engineer] Troy Lewis provided input and support, and within two days we had it running."

John is optimistic about his role in Clutch & Brake Xchange's future, and he's excited to have a hand in the shop's development. "Hydraulic pumps are the future," he says. "California agriculture runs on fluid power. Recently, we've become a Permco West Coast build center. We can port, build, and test in a day. The factory takes six to ten weeks." Not bad for a classically trained chef!

"I didn't go to engineering school. I have no machining background, and everything I've learned has been with the help of application engineers," says John. "Thanks to that support and an amazing product, ESPRIT really is the only CAM system you'll ever need."

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COVID-19 Hero: Strama-MPS Pivots Focus to Mask Production in Record Time

21 August 2020

As we continue to navigate through the COVID-19 pandemic, the global population finds itself in a new reality. In many cases around the world, that reality includes wearing a mask to slow the spread of the disease. With an increased demand for mouth and nose protection, self-sewn and make-shift masks have taken the place of high-quality medical grade masks, due to lack of supply.

Recognizing the supply bottlenecks and oftentimes poor-quality materials in production, Strama-MPS, a division of Strama Group, pivoted their special-purpose machinery business portfolio, to being intensively engaged in handling the coronavirus pandemic.

With a goal of supplying all sectors of the population with high-quality masks at a fair-price, that are 100% made in Germany, Strama-MPS began manufacturing the ProMoMask "Community" mask for the general public, as well as surgical masks that are certified according to EN 14683 Type II, a mandatory certificate in the medical sector.

Both masks are made with the highly desired fleece material, that was described as “more sought-after and even more difficult to get than toilet paper in the early Corona times,” explains Maximilian Krauß, Head of Marketing of Strama-MPS. The company is actively striving to be less dependent on deliveries from abroad in the future for medical product creation.

By fine tuning the mask design and their first machine, Strama-MPS was producing 85,000 masks per day in the beginning of June 2020. Machine two and three were not far behind in creation, and are now manufacturing close to 200,000 masks daily. The product details are as follows:

ProMoMask “Community” Masks

3-layer fleece, made of 100% PP (polypropylene) with Oeko-Tex® Standard 100 certification, product class 1

Comfortable for long-time wear with elastic ear band

Water repellent and skin-friendly to protect against moisture droplets

Positive CO2 footprint: Production in Straubing, Germany

Surgical Masks

3-layer fleece - 100% PP (polypropylene) with Oeko-Tex® Standard 100 certification, product class 1

Certified according to EN 14683 Type II, meeting the high medical requirements

Made with filter material (meltblown) with a performance of at least 98 percent

PTC thanks Strama-MPS for its tireless efforts transitioning from building machines to manufacturing one of the most important prevention elements in the fight against the coronavirus.

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Impressive Architecture and Efficient Construction: The Irina Viner-USmanova Rhythmic Gymnastics Center

19 August 2020

The annual report of the Nemetschek Group features an impressive architecture project: the Irina Viner-Uzmanova Rhythmic Gymnastics Center in Moscow. Software solutions from GRAPHISOFT, Solibri, and Allplan were involved in planning and “shaping” this building. The sports facility seats 4,000 people and hosts competitions and training events. Its striking feature is the unique roof shape resembling the form of a gymnastic ribbon fluttering above the ground. The project was led by Creative Production Union (CPU) PRIDE, an architecture office in Moscow.

This astonishing building shows what collaboration and cooperation during the design and construction process looks like in an ideal world: dialogue-oriented, open, and without software barriers. “The project demonstrates the consistent use of Open BIM in a real-life application, leveraging different software solutions from the Nemetschek Group,” says Viktor Várkonyi, Chief Division Officer of the Planning & Design Division and member of the Executive Board of the Nemetschek Group.

The broad application of Building Information Modeling (BIM) is a high priority for CPU PRIDE. Undertaking the complex planning activities for this project required a comprehensive BIM solution. It served as the main tool for coordinating the work of the architects and the specialist engineers. For the design, they worked with the BIM planning software Archicad from GRAPHISOFT, which also served as an important collaboration tool. “We were able to develop the first 3D model in less than a month,” explains Elena Myznikova, chief architect at CPU PRIDE.

To locate errors, Solibri Office was used to perform collision detection analysis within the information models. “BIM helps prevent human errors. The first model we received from the engineers during the design development phase contained 1,800 collisions. And this, by the way, is not that many. Using 2D drawings, it would be simply impossible to detect all of these conflicts,” said Vitaliy Krestianchik, chief architect at CPU PRIDE.

As part of the project, a reinforced concrete structural model was created with Allplan.

The Center for Rhythmic Gymnastics was managed in a single BIM model. CPU PRIDE consistently relied on Open BIM: the data exchange with internal and external parties took place via IFC. It enabled all the project participants to interact, regardless of the software used. Despite the large number of programs used during the project, the Open BIM workflow made it possible to work consistently, to detect planning errors in advance of the construction phase, and to increase the quality of the documentation.

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Nuvoton Accelerates Development with the Cadence Palladium Emulation Platform

19 August 2020

Cadence Design Systems, Inc. announced that Nuvoton has deployed the Cadence® Palladium® Z1 Enterprise Emulation Platform to accelerate the development of its microcontroller units (MCUs) for industrial and consumer applications. Using the Palladium Z1 platform, Nuvoton achieved faster hardware and software integration, reducing OS boot-up simulation time from four days to just 60 minutes compared to its legacy solution.

The Palladium Z1 Enterprise Emulation Platform is part of the Cadence Verification Suite and supports the company’s Intelligent System Design™ strategy. The Cadence Verification Suite is comprised of core engines and verification fabric technologies that increase verification throughput and design quality, fulfilling verification requirements for a wide variety of applications and vertical segments. For more information on the updated Palladium Z1 platform, please visit www.cadence.com/go/NuvotonPalladium.

Nuvoton selected the Palladium Z1 platform to improve system-on-silicon verification, while optimizing hardware and software integration earlier in the verification process. Using the Cadence SpeedBridge® Adapters with the Palladium Z1 platform, Nuvoton performed efficient driver and application-level testing. In addition to the Palladium Z1 platform and SpeedBridge Adapters, Nuvoton deploys multiple solutions from the Cadence Verification Suite, including Cadence Xcelium™ Logic Simulation, Verification IP, and the JasperGold® Formal Verification Platform, to improve overall productivity.

“When verifying our MCUs, we must have tools that integrate seamlessly and augment team collaboration,” said Jen-Lieh Lin, Vice President of Nuvoton Microcontroller Application Business Group. “We deployed the Cadence Palladium Z1 platform for its ability to accelerate SoC verification and improve the hardware-software integration of our designs. By combining the Palladium Z1 platform with the other Cadence engines and solutions in the Cadence Verification Suite, we can confidently deliver the highest quality products to market faster.

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UK Government to work with Hewlett Packard Enterprise to cut the complexity of cloud adoption

19 August 2020

Hewlett Packard Enterprise (HPE) announced that it has signed a Memorandum of Understanding (MOU) with UK Crown Commercial Service (CCS) to enhance the cloud experience for public sector customers. As the central buying entity on behalf of the UK public sector, the CCS is seeking to secure access to the latest hybrid cloud services and maximize cost efficiency.

Signed as part of the One Government Cloud Strategy, the MOU further strengthens the relationship between HPE and the UK Government, which has existed for many decades. The One Government Cloud Strategy, launched in 2020, acknowledges that public sector cloud strategies necessarily include public, hybrid and multi-cloud solutions.

HPE is working with the CCS to bring simplicity and efficiency to UK public sector organizations, whilst accelerating the introduction of new services and optimizing usage and spend. Public sector organizations can now take full advantage of HPE’s comprehensive portfolio of edge to cloud technology solutions provided by HPE and via HPE’s authorized partners.

“CCS provides commercial agreements which help organisations across the entire public sector save time and money on buying everyday goods and services,” said Simon Tse, Chief Executive of CCS. “This Memorandum of Understanding with HPE not only provides great value for public sector organisations, it also allows them to innovate more readily and improve services for the citizens they serve.”

HPE is working with the Crown Commercial Service to bring simplicity and efficiency to UK public sector organizations

“We are delighted to have signed this MOU as part of the One Government Cloud Strategy and look forward to helping public sector organizations to optimize their hybrid cloud operations,” said Sue Preston, Vice President & GM UK&I at HPE Pointnext Services. “Despite the growth of cloud strategies in the public sector, many organizations have struggled to move business critical applications to the public cloud, due to application entanglement, data gravity, security and compliance, and unpredictable costs. By leveraging HPE technologies, like HPE GreenLake, public sector organizations

can reduce complexity, boost innovation and bring cost efficiency to their digital transformation efforts.”

Effective immediately, the agreement allows qualifying public sector bodies to benefit from minimum agreed discounts on a range of HPE technologies, including HPE GreenLake cloud services, Aruba enterprise networking and security offerings, and HPE’s storage and compute technologies.

The MOU gives public sector organizations access to HPE’s flexible, managed, pay-as-you-use cloud experience in their own data center, at the edge and at colocation facilities, such as Crown Hosting Data Centres. Public sector customers can now procure HPE GreenLake cloud services with streamlined delivery – from order to run in as few as 14 days. HPE GreenLake cloud services are available in small, medium and large pre-integrated configurations. HPE’s GreenLake Central platform enables the management of all apps and data across public and private clouds, the data center and edge workloads.

By setting out specific pricing, terms and conditions for the public sector, the agreement makes it easier, faster and cheaper for Government departments, local authorities and public organizations to access vital infrastructure and technology needed to transform the way they do business.

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Welfull Rolls Out Centric PLM in Only Nine Weeks in Face of Pandemic

18 August 2020

Welfull Group Co., Ltd., a major importer and exporter in China, has successfully implemented Centric Software®’s Product Lifecycle Management (PLM) solution. Centric Software provides the most innovative enterprise solutions to fashion, retail, footwear, outdoor, luxury, consumer goods and home décor companies to achieve strategic and operational digital transformation goals.

Founded in 1993, Welfull is one of China’s leading import and export trading companies for textile and apparel products. Welfull has established its name in the international arena and amassed many customers and supplier resources from around the world.

Industry veteran Welfull encountered many market challenges during the COVID-19 pandemic. Mr. Xu Zhenhao, CIO of the Welfull Group, lists five pain points common to international textile and apparel trade enterprises: growing labor costs, a relatively low level of information sharing, thin profit margins, a lack of standardization and the small scale of upstream suppliers.

Welfull has created a blueprint for digital transformation to address these issues. Centric PLM is at the core of their strategy, as it will close the loop of data flows to facilitate resource sharing and more efficient coordination throughout the supply chain.

“Centric and Welfull are closely aligned in their global vision,” says Mr. Xu. “Centric has impressed us with their second-to-none industry commitment and professional consulting services. Whether we move toward an OEM or ODM business model, Centric PLM can flexibly and effectively accommodate our needs and greatly shorten implementation time.”

Centric PLM was implemented at Welfull in just nine weeks, and will digitalize the entire business process, from inquiry to sample making to delivery. Eliminating information islands will promote efficient teamwork and reduce communication costs. Establishing a digital process and the accumulation of digital assets will improve the efficiency of reordering and style selection, giving Welfull a competitive edge.

“We are happy to announce that Welfull has successfully implemented Centric PLM in a very short time,” says Chris Groves, President and CEO of Centric Software. “We’re looking forward to working with Welfull to realize the potential of their digital strategy and ensure resilience to future shocks.”

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Worley Chooses Hexagon Solutions to Enhance Project Delivery

19 August 2020

Worley, a leading global provider of professional project and asset services in the energy, chemicals and resources sectors, has chosen solutions from Hexagon’s PPM division to enhance its project delivery portfolio.

The agreement provides Worley with future access to solutions from Hexagon PPM, a leading global provider of engineering software for the design, construction and operation of industrial plants, ships and offshore facilities.

Worley is a longtime worldwide user of Hexagon technology and Intergraph Smart® Materials, a leading integrated solution for lifecycle material, supply chain and subcontract management.

“We are pleased to continue our relationship with Hexagon PPM technologies and continue to utilize their tools for many of our business-critical projects, including Intergraph Smart 3D and Smart Materials, and we will continue to look for strategic opportunities for Smart Construction,” said Michael Dreiling, Chief Information Officer, Worley.

Mattias Stenberg, President, Hexagon’s PPM division, said, “Hexagon PPM looks forward to partnering with Worley’s global operations and helping to enhance its global competitiveness with this expanded agreement between our companies.”

Hexagon PPM software solutions transform unorganized data into intelligent, actionable information that enables the smarter design, construction, operation and management of industrial projects including: oil & gas, power generation, AEC building infrastructure, metals & mining, shipbuilding, pharmaceutical, chemical and consumer goods. Throughout the lifecycle, PPM helps connect field to office, EPCs with owner operators and initial design through handover. For more information, visit hexagonppm.com/products.

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Product News

Bluebeam Revu 20: Streamline Remote Project Collaboration

18 August 2020

Bluebeam, Inc. announces the newest version of Revu, their flagship project efficiency and collaboration solution. Revu 20 delivers greater flexibility and control with improved user and content management capabilities and streamlines communication with new enhancements designed to increase accuracy and save time.

“When we think of ‘teamwork’ on a construction project, we think about removing barriers through technology while unlocking the inherent potential of a group of diverse project partners,” said Bluebeam CEO Jon Elliott. “When teams have the right solutions in place to work together seamlessly across distances and time zones, all of the investments an organization makes in training, management and process development can be realized through clear and measurable improvements in quality, accuracy and efficiency. Revu 20 delivers improved communication management capabilities and productivity improvements that are designed to maximize an organization’s investments across the board.”

Revu 20 introduces new communication features that are designed to boost productivity and enable more successful project delivery, improved user and content management capabilities to provide greater flexibility and control, and enhancements to the powerful markup tools in Revu that improve project data management when reviewing, commenting, marking up, tracking and managing project documents.

“Bluebeam has always been a company that has focused on solving problems without reinventing the way teams work in the process,” said Bluebeam CPO Roger Angarita. “In fact, we focus on developing solutions that enhance the existing strength of organizations and meet them at the point where the right tools start to make all the difference. Whether that takes the form of the right features, the right collaborative tools or the right global data network. As proof to the effectiveness of our approach, Bluebeam Global Services surveyed customers at individual companies, and found that 82% of Revu users reported saved time, 76% reported boosted efficiency and 88% reported improvement in work quality. These results reflect the incredible benefits of collaborative innovation and teamwork, and we’re proud to drive results that build a stronger business relationship among AEC companies and their customers.”

Studio is a collaborative space accessed from within Revu that transforms the application into a real-time collaboration solution, allowing teams to stay connected across the globe from wherever they are – whether it’s the jobsite, the trailer or—most recently—their homes. Studio Projects provide access to a single centralized location to store documents—even entire building projects—in the cloud, and Revu 20 delivers improved access and control. Revu 20 also introduces an improved invitation process and administrative controls in Studio Sessions that make it easier than ever for team members and administrators worldwide to instantly connect on the same set of documents and take advantage of real-time connectivity.

Along with the release of Revu 20, Bluebeam also announces the launch of a Studio server in Australia today, allowing clients to host Studio Sessions and store project data within Australian borders, meeting data sovereignty requirements. Access is available immediately and is automatic for all users in the region using Revu 20 or Revu 2019. More information can be found [here](#).

Revu 20 Standard, CAD and eXtreme editions are available now at Bluebeam.com and through our worldwide reseller network.

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MakerBot CloudPrint Debuts New Workflow for 3D Printing Collaboration from Anywhere

19 August 2020

MakerBot, a subsidiary of Stratasys announces the new MakerBot CloudPrint™ software, designed to provide a seamless 3D printing workflow for teams to collaborate around the world.

MakerBot CloudPrint delivers a seamless 3D printing experience for teams remote or onsite (Photo: Business Wire)

With more people working remotely, there is a greater need for teams to manage their 3D printers and print jobs from anywhere. MakerBot CloudPrint (formerly MakerBot Cloud™) is the next-generation cloud-based 3D printing platform that enables individuals and teams to utilize 3D printing collaboratively, all from within their browser and across multiple devices. MakerBot CloudPrint combines the ease of use and familiar software features from MakerBot Print™ with the scalability of the cloud to provide a more efficient 3D printing workflow management solution. MakerBot CloudPrint is currently offered free to use, and is planned to be updated in the future to ensure users have access to the latest features.

“We are experiencing a global phenomenon with more people working remotely than ever before. Without the right tools, this can lead to a disruption in work and, ultimately, a decrease in performance,” said Nadav Goshen, CEO, MakerBot. “We believe that MakerBot CloudPrint is an ideal solution for individual or team collaboration from anywhere. MakerBot CloudPrint offers an all-in-one solution for users to prepare, queue, print, and manage printers. MakerBot CloudPrint aims to easily adapt to your workflow, no matter how many printers you have. This solution was built with productivity in mind, and we plan to continuously improve the fastest CAD-to-part benefits of the METHOD platform.”

The new workflow software has been designed to overcome common challenges associated with 3D printing, such as optimizing utilization, managing print jobs, and collaborating with team members. MakerBot CloudPrint provides a faster and more advanced print preparation and management solution to enable users to be more productive. The solution gives users more visibility into and control over their print jobs, from mass production to team projects to individually queued jobs. MakerBot CloudPrint allows users to prioritize print jobs by project or reorder the print queue based on shifting priorities. With MakerBot CloudPrint, teams can easily share access to connected MakerBot® 3D printers even when working remotely. MakerBot CloudPrint is also integrated with Google products, allowing users to access MakerBot applications with familiar tools.

“Working remotely has meant a lot of changes to how we collaborate in a creative environment. While many digital tools have replaced face to face interactions, nothing can replace working with physical prototypes. MakerBot CloudPrint enables us to work with our 3D printers at a distance, removing one more barrier in the process,” said Marco Perry, CEO, PENZA. PENZA is an industrial design and invention consulting firm based in New York City. The firm uses the MakerBot METHOD™ platform for a wide range of uses in its product design and development processes.

MakerBot CloudPrint streamlines the 3D printing workflow, improving productivity while reducing printer downtime between projects. Key features include:

Print preparation: Users can slice and prepare their 3D prints directly from their browser. The new full-featured print preparation view allows for easy part positioning and preview. Users can utilize optimized print modes for a seamlessly controlled experience or access advanced settings on the MakerBot METHOD platform, such as custom or experimental print profiles. The live camera feeds also provide the latest status updates on print jobs from connected printers.

Printer management: Users can add, monitor, and control access to connected MakerBot printers from anywhere. The dashboard provides a centralized location to track and view prints directly from a browser. Users can also generate reports to analyze the performance of their printers.

Queuing: The new printer queuing feature improves the productivity of the machines by queuing print jobs to each connected machine. Users can gain insights into their print jobs and track their projects using the queue and print history features.

Collaboration: Printers can be grouped into workspaces and shared with teams, production areas, or

classrooms to reduce the hassles and redundancies of multiple printer management. Permissions can be set for team members to allow for better control and access to the workspace. Submission links can be created to allow anyone to submit print jobs for approval.

Advanced METHOD platform settings: MakerBot CloudPrint unlocks expert settings on the METHOD platform for users who need more advanced print features. This includes additional MakerBot LABS™ for METHOD user settings, custom print profiles, and access to the full portfolio of METHOD extruders and materials, including single extrusion feature to increase print volume, and more.

The MakerBot CloudPrint software is compatible with MakerBot's 3D printing solutions, including the MakerBot METHOD 3D printer series, the MakerBot SKETCH Classroom™ bundle, and the MakerBot Replicator® 3D printer series. Additional MakerBot CloudPrint updates include speed optimizations, print performance improvements, new UX/UI designs, improved slicing and previewing options, and multi-model support.

MakerBot plans to release additional features for MakerBot CloudPrint in the near future, including improved print job queuing and organization, custom print modes, per layer preview improvements, and improved printer monitoring.

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MathWorks Introduces Motor Control Blockset for Algorithm Development

21 August 2020

MathWorks introduces Motor Control Blockset, an add-on product for Simulink for designing and implementing motor control algorithms. Now, motor control engineers can use reference examples and Simulink blocks for developing field-oriented control algorithms to spin brushless motors. The blockset extends the set of Simulink products for motor control design, enabling engineers to test algorithms with each design change, generate fast and compact ANSI/ISO C code, and use simulation to validate software, reducing certification testing cycles.

“Instead of a process where handwritten code is not verified until actual motor testing, engineers can use simulation and code generation to catch errors earlier and speed up their motor control development projects”

“Instead of a process where handwritten code is not verified until actual motor testing, engineers can use simulation and code generation to catch errors earlier and speed up their motor control development projects,” said Arkadiy Turevskiy, product manager, MathWorks. “Motor Control Blockset strengthens our support for motor control design, where teams report reducing up to 50% of project time when using Simulink to design and implement digital control systems.”

MathWorks is working with motor control hardware providers to develop reference examples that support their motor control kits, starting with several Texas Instruments kits based on their C2000 real-time microcontrollers. Engineers using these kits can automatically estimate motor parameters, generate application code, and spin motors in minutes. Additionally, Motor Control Blockset can be used with Simulink Real-Time and Speedgoat real-time target machines for rapid control prototyping, including field-oriented control autotuning.

Motor Control Blockset includes:

Park, Clarke, space vector modulation, field weakening, maximum torque per amp, and other motor control algorithms optimized for generating fast, compact embedded code

Resolver decoder, Hall sensor decoder, Quadrature encoder decoder, and sliding mode observer for

implementing sensed and sensorless motor control

Field-Oriented Control Autotuner block for automatically tuning current and speed loops of field-oriented control architectures

Instrumented tests to estimate motor parameters from experiments with motor hardware

Linear lumped-parameter average-value motor models for verifying control algorithms in closed-loop simulation

Reference applications showing how to quickly spin a motor with several motor control hardware kits

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ModuleWorks Releases 2020.08 CAD/CAM Components

20 August 2020

ModuleWorks announces the release of its 2020.08 CAD/CAM software components. This is the second major release of 2020 and is available now for download from the ModuleWorks website.

Each ModuleWorks release contains new and enhanced features across the entire product range. The highlights of the latest release are presented here. They include new performance and quality enhancing features for rotary machining, additive manufacturing, 3-axis machining, simulation and the ModuleWorks Multi-Axis Post Processor (MultiXPost).

Rotary Machining

Axis offset for roughing cycles

This new feature enables users to perform roughing cycles with an axis offset for rotary machining. The tool cuts with the cutting edges instead of the tool center to achieve more stable cutting speeds and close-to-diameter cutting with non-spherical tools. The offset is always in the opposite direction to the direction of rotation and automatically changes position when the rotation direction changes. This movement is linear to prevent damage to the tool and ensure a safe cutting process.

Additive Manufacturing

3+2 Additive manufacturing for fused deposition modeling

ModuleWorks 3+2 axis additive manufacturing uses the full capabilities of 5-axis printing machines to print extreme overhang areas without the need for support structures. This accelerates the manufacturing process and delivers a higher quality finish with reduced staircase effects.

3-Axis Machining

Profile pass for adaptive and offset roughing

To improve the quality of the machined product, additional cuts are added along the part boundaries to remove any remaining uncut cusps. A range of advanced options, such as cutter compensation and tangential arc, gives users full control over the creation of the toolpath and makes it easier to create the finishing pass.

Multi-Axis Post Processor (MultiXPost)

Post on any n-axis machine

MultiXPost now supports posting on n-axis machines. This opens new possibilities for generating G-code for n-axis machines and for simulating robotic applications. To provide full control over the machine movements, MultiXPost offers a range of new parameters and returns the machine axis values

that can be used to drive a simulation or generate an NC G-code file.

Simulation

Smart measurement of stock and arbitrary meshes

Smart-measure is a new interactive touch-screen tool for quickly and accurately measuring the stock and arbitrary meshes. Automatic feature identification and intelligent snapping help users to set precise measurement points and then use the convenient drag & drop functionality to measure distances between the stock and the machine as well as depths, clearances, angles and radiuses.

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New SGS Round Solid Carbide Tool Libraries Available for Mastercam

20 August 2020

CNC Software, Inc., developers of Mastercam, has announced a new partnership with KYOCERA SGS Precision Tools (KSPT) to provide tool libraries to the Mastercam user base. KSPT is an ISO 9001:2015-certified manufacturer of industry leading round solid carbide cutting tools and pioneered some of the world's most advanced cutting tool technologies.

“CNC Software is proud to partner with KYOCERA SGS Precision Tools. We're excited to offer ten specialty series tool libraries of SGS tools in a native Mastercam tool library format for download,” said Stas Mylek, Partnership Program Manager, CNC Software, Inc. “As a result, Mastercam users gain fast, seamless access to the latest high-performance SGS round solid carbide cutting tools,” Mylek continued.

With this collaboration, Mastercam users can download both inch and metric SGS round solid carbide cutting tool libraries from the Mastercam Tech Exchange. The native Mastercam 3D tool databases are fully compatible with Mastercam 2020 and subsequent releases. These offer the latest KSPT innovations and SGS product introductions, including their latest Z-Carb HPR roughing line and H-Carb end mills for Dynamic Milling. The native libraries represent more than 12,000 tools including ferrous and non-ferrous cutting tools ranging from end mills, routers, micro tools, and drills, to reamers and countersinks.

Mark Stockinger, Vice President – Sales and Marketing, KYOCERA SGS Precision Tools, stated, “We're excited to team up with Mastercam. This partnership provides the Mastercam user base of over 275,000 with direct import of SGS-branded round solid carbide cutting tools, along with tool data to use on their projects and jobs. This time-saving benefit gives more users access to the latest product innovations we have to offer.”

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