goengineer

EXECUTIVE GROWTH SUMMIT

The Convergence of AI and Industrial Technology

April 21 | Stratasys HQ | Minnesota

THANK YOU FOR ATTENDING

Thank you for attending the Executive Growth Summit, focused on how artificial intelligence and industrial technologies are reshaping engineering, manufacturing, and organizational growth.

This document provides a clear, shareable recap of the key ideas from each session, intended to support internal discussion and alignment across leadership and technical teams. Rather than distributing slide decks, the summaries that follow capture the intent and value of each presentation.

Many of the topics covered during the Summit are well-suited for team briefings, leadership working sessions, or technical deep dives. Should you wish to explore any of these subjects further, **GoEngineer is available to engage with your organization** to expand on the concepts, assess applicability, and support next steps tailored to your environment.

EVENT OVERVIEW & CORE THEMES

The Executive Growth Summit brought together executive-level leaders to explore how AI, simulation, data platforms, and talent strategies are converging to change the way products are designed, validated, and produced.

Core themes discussed throughout the day included:

- AI as an augmentation to expert judgment rather than a replacement
- The importance of connected data and integrated platforms
- Earlier validation through simulation and generative approaches
- The role of people and process maturity in technology success

PRESENTATION SUMMARIES

THE AUGMENTED ENGINEER: AI'S ROLE IN DESIGN AND MANUFACTURING

Presenter: Tyler Reid
GoEngineer

This session explored AI as a new computing paradigm that reduces workflow friction and enables faster exploration of design spaces. Generative approaches allow teams to evaluate more concepts earlier in the process without prematurely committing heavy engineering resources.

A three-part framework emphasized that AI delivers value only when systems retain institutional knowledge and tools are fully integrated before intelligence is applied.

Key Takeaways:

- AI as a force multiplier rather than a replacement for engineering expertise
- Generative design enables lower costs and faster iteration during early exploration
- Integrated tools and clean data are essential prerequisites for AI adoption

Your Next Steps:
Contact Tyler at treid@goengineer.com to assess your AI readiness and explore how generative workflows can lower design costs and act as a force multiplier for your engineering expertise.

Contact Tyler

THE AI-DRIVEN ENGINEERING FRONTIER

Presenter: Manish Kumar
SOLIDWORKS | Dassault Systèmes

This keynote outlined the evolution of AI within SOLIDWORKS from simple features into workflow-aware "virtual companions." These companions — AURA, LEO, and MARIE — work alongside engineers to support inspiration, execution, and governance across design and simulation.

The session demonstrated how natural-language-driven geometry and assembly generation allow complex engineering intent to be captured and executed in minutes.

Key Takeaways:

- Embedded AI designed around real engineering workflows
- Virtual companions supporting design, simulation, and compliance
- Early demonstration show the potential of text-to-CAD and intent-driven engineering

Your Next Steps:
Contact Amee at ameghani@goengineer.com to discuss how the latest AI companions and text-to-CAD capabilities can be integrated into your SOLIDWORKS workflows to accelerate design execution and automate complex simulation and compliance tasks.

Contact Amee

Watch Manish's 3DEXPERIENCE World 2026 keynote presentation on AI here.

THE M&A INTEGRATION PLAYBOOK: RAPID PLATFORM STANDARDIZATION


Presenters: Mack Rasmussen & Eric Keinath
GoEngineer

This session emphasized the importance of early engineering platform and data standardization to protect post-merger value. Fragmented CAD, PDM, PLM, and ERP systems create inefficiencies, duplicate work, and risk loss of intellectual property.

Practical approaches like geometry-based search and phased migrations help unify systems while minimizing disruption.

Key Takeaways:

- Engineering platform decisions directly impact M&A ROI
- Geometry-based search enables cross-system and global alignment
- Phased standardization reduces integration risk

Your Next Steps:
Contact Mack at mrasmussen@goengineer.com to review your current systems, identify standardization opportunities, and build a clear roadmap. Clean, structured data will set the foundation for future AI success.

Contact Mack

ELECTRONIC DESIGN RELIABILITY: SOLVING COMPLEXITY IN THE FIRST PASS


Presenters: Vincent DiLello & Jacob Quintana
Cadence & GoEngineer

This session highlighted the growing complexity of electronic systems and the need for early coordination across ECAD, MCAD, simulation, and manufacturing. A model-based approach enables earlier issue detection — reducing rework and improving first pass success.

By leveraging unified reliability workflows and advanced solvers, teams can detect signal integrity, thermal, and mechanical issues early, transforming first-pass success into a strategic competitive advantage.

Key Takeaways:

- Early, cross-domain validation reduces risk
- Model-based workflows connect ECAD and MCAD
- First-pass reliability drives competitive advantage

Your Next Steps:
Contact Jacob and Jairo (jquintana@goengineer.com and jcastellanos@goengineer.com) to set up a call to review your ECAD MCAD workflows and compatibility with simulation and manufacturing. Setting your team up for success to 'get it right the first time' will be the cornerstone for future AI endeavors.

Contact Jacob | Contact Jairo

SIMULATION-DRIVEN DESIGN: DE-RISKING THE PATH TO PRODUCTION

Presenter: Joe Formicola
GoEngineer

This session showed how simulation can scale from a specialist tool to a core decision-making capability. Virtual testing identifies failures earlier, reducing cost, risk, and reliance on physical prototypes.

Examples showed how non-linear analysis, optimization, and parametric workflows support rapid evaluation of design alternatives. AI-accelerated approaches were also discussed, highlighting the importance of correlating predictions with physical results to maintain trust.

Key Takeaways:

- Virtual testing reduces early-stage cost and risk
- AI-enhanced simulation accelerates design exploration
- Validation with real-world data is critical for trust

Your Next Steps:
Contact Joe at jformicola@goengineer.com to explore how your team can predict failures earlier with simulation, whether building in-house capability or leveraging external support.

Contact Joe

THE TALENT MULTIPLIER: BUILDING SENIOR-LEVEL OUTPUT FROM WITHIN


Presenters: Jesse Ortman & Ryan Field
GoEngineer

This session highlighted the hidden cost of continuous hiring and made the case for investing in talent development as a more sustainable growth strategy. Turnover reduces institutional knowledge and slows productivity, while structured training and mentoring unlock untapped potential within existing teams.

By focusing on structured mentoring and certifications, organizations can unlock the hidden capacity of experienced engineers who often underutilize their existing toolsets, driving efficiency without the need for additional headcount.

Key Takeaways:

- Internal development delivers faster ROI than ongoing hiring
- Structured learning unlocks hidden productivity
- Technology investments perform better when skills grow alongside them

Your Next Steps:
Schedule a discovery call with Jesse (jortman@goengineer.com) to assess team skills, define a 1-year growth plan, review development strategies, and align certifications with business goals.

Contact Jesse

FROM ENGINEERING TO ERP: TURNING PRODUCT DATA INTO A COMPETITIVE ADVANTAGE

Presenter: Hasara Sandul
qBuild

This session explored how engineering data serves as the foundation for enterprise systems like ERP, procurement, and production planning. When product data is inconsistent, operational decisions suffer. On the other hand, governed and authoritative data improves forecasting and significantly reduces lead times.

By connecting engineering intent directly to enterprise execution, organizations can eliminate manual reconciliation and ensure tighter cross-functional alignment.

Key Takeaways:

- Engineering data is a primary driver of downstream business performance
- Reducing data duplication improves forecast accuracy and operational efficiency
- A single source of truth is essential for cross-functional alignment and better business outcomes

Your Next Steps:
Contact Chris at cwatkinson@goengineer.com to discuss how to bridge the gap between your engineering data and ERP systems, ensuring a single source of truth that improves forecasting and streamlines your production planning.

Contact Chris

THE DIGITAL THREAD: CONNECTING ENGINEERING INTENT TO MANUFACTURING REALITY

Presenter: Dick Longoria
Dassault Systèmes

This session examined the "Digital Thread" as a continuous stream of data that bridges the gap between initial design intent and final production. By maintaining a single, unbroken connection integrating PLM, ERP, and MES, organizations can eliminate the data silos that lead to manufacturing errors and costly rework.

The discussion focused on how moving from a file-based to a model-based approach ensures that manufacturing processes stay aligned with the latest design revisions in real-time. By establishing a single source of truth, companies can leverage data-driven insights to reduce operational waste and navigate the increasing complexity of modern product variants.

Key Takeaways:

- Connecting PLM, ERP, and MES eliminates silos and ensures digital continuity
- A single source of truth is required to prevent project failure
- Real-time synchronization significantly reduces waste, rework, and warranty claims

Your Next Steps:
Reach out to Madsen at mwessman@goengineer.com to discuss how to implement a Digital Thread strategy in your organization and to ensure your manufacturing reality remains aligned with your engineering intent.

Contact Madsen

GENERATIVE MANUFACTURING: REDEFINING THE PRODUCTION FLOOR

Presenter: Rich Garrity
Stratasys

This session examined how mounting production pressures such as extended lead times, labor constraints, supply chain risk, and cost volatility have exposed the limitations of traditional manufacturing models. It demonstrated how each additive technology supports tooling, validation, and scalable end-use production through advanced materials and integrated software workflows.

The presentation highlighted the positioning of hybrid manufacturing environments as the future standard and underscored the role of additive manufacturing in enabling production flexibility at scale.

Key Takeaways:

- Additive Manufacturing addresses critical challenges in speed, supply chain resilience, and cost control
- Hybrid production floors represent the new operational standard, integrating additive and traditional manufacturing to drive agility, efficiency, and long-term competitiveness
- The incorporation of AI software in additive will increase the paths to adoption

Your Next Steps:
Contact Nick Zeid at nzeid@goengineer.com to review your current production methodology and identify opportunities for improved workflows.

Contact Nick

INDUSTRIAL METAL ADDITIVE MANUFACTURING: ENABLING THE FUTURE OF PRODUCTION

Presenter: Koen van de Perre
Bright Laser Technologies (BLT)

This presentation explored how metal additive manufacturing has emerged as a strategic lever for accelerating innovation and securing competitive advantage in scalable manufacturing. It examined how organizations are using metal AM to reduce development cycles, increase design freedom, and transition more rapidly from concept to production.

This session highlighted how advanced in materials, process control, and production readiness had positioned metal additive manufacturing as a viable complement to traditional manufacturing methods and reinforced the role of metal AM in enabling faster decision-making, greater operational agility, and long-term competitiveness in the next era of industrial production.

Key Takeaways:

- Strategic adoption of metal AM strengthened operational agility, positioning manufacturers to respond more effectively to market volatility, customer demands, and future production challenges
- Design freedom translates directly to competitive advantages for manufacturers
- Metal AM has shifted from experimentation to execution and is enabling organizations to accelerate innovation while supporting scalable, production-ready applications.

Your Next Steps:
Contact Josh Brown at jbrown@goengineer.com to determine if metal 3D printing can scale up your production.

Contact Josh

PRODUCT LIFECYCLE STRATEGY: REDUCING THE OVERHEAD OF TECHNICAL DATA

Presenter: James Carr
GoEngineer

This presentation reframed technical data overhead as a structural business risk rather than a simple engineering inconvenience. File-based environments often lead to manual data recreation and slower decision-making, whereas a platform-based PLM strategy creates a "Virtual Twin" that connects design, manufacturing, and service data.

The session emphasized that a unified platform strategy is the essential foundation for moving beyond isolated AI use cases to truly scalable, data-driven analytics.

Key Takeaways:

- Technical data overhead is a business-wide problem, not just an engineering one
- A Virtual Twin strategy enables visibility across the entire product lifecycle
- Structured, contextual data is a mandatory requirement for scalable AI success

Your Next Steps:
Contact James at jcarr@goengineer.com to discuss transition strategies from file-based environments to a platform-centric PLM approach that reduces overhead and prepares your data for advanced AI and analytics.

Contact James

CLOSING MESSAGE

Thank you for participating in the Executive Growth Summit. We hope this recap supports continued discussion and alignment within your organization. We look forward to continuing the conversation as you evaluate how these strategies apply to your teams and business objectives.