

Smart Manufacturing

Opening Remarks

G. Notarnicola
Partner and Head of Semiconductor Industry
Porsche Consulting S.r.L., Milano, Italy



Abstract

Coming Soon

Biography

Giovanni Notarnicola is an electronic engineer with an international career spanning over 18 years, marked by deep expertise in the semiconductor industry and strategic transformations. He began his journey at the CERN in Geneva, where he contributed to cutting-edge projects in particle physics, an experience that laid the groundwork for his ability to tackle advanced technological complexities.

In 2008, he was selected for the "high potentials" program at Bosch, where he worked at both central and plant levels across Europe and Asia, leading strategic transformations in supply chain, production, and IT for the automotive sector. This experience allowed him to develop a deep understanding of industrial production processes and lead global optimization and innovation projects.

In 2012, Giovanni joined Porsche Consulting, initially leading strategic transformation projects across various industrial sectors, including manufacturing, consumer goods, and automotive. Over time, he took on roles of increasing responsibility, eventually becoming Global Head of the Semiconductor Industry at Porsche Consulting, where he is responsible for growing the industry practice. In this role, he supports the strategic transformations of key industry players in the post-COVID world, focusing on building new capabilities and challenging the status quo to drive a higher level of performance. His work leverages innovative technologies such as AI applied to operations and the development of lights-out factories, while also providing strategic support on geopolitical challenges and innovation to help the industry achieve greater resilience and global competitiveness.

In addition to his role at Porsche Consulting, Giovanni is Chairman of several initiatives within the strategic partnership between SEMI and Porsche Consulting, aimed at contributing to the development of a technologically advanced and competitive ecosystem for the semiconductor industry.

References

Autonomous Factory with Physical AI

Y. J. Jang
Professor
KAIST, Seoul, Republic of Korea (South Korea)



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Biography

Young Jae Jang received his Ph.D. in Mechanical Engineering from the Massachusetts Institute of Technology (MIT) in 2007, and dual M.S. degrees in Mechanical Engineering and Operations Research from MIT in 2001. He earned his B.S. in Aerospace Engineering from Boston University in 1997.

He is currently a Professor in the Department of Industrial and Systems Engineering at the Korea Advanced Institute of Science and Technology (KAIST) and the Founding Director of the Center for KAIST Manufacturing Physical AI, where he leads research on next-generation autonomous manufacturing systems.

In parallel, he is the CEO and Co-founder of DAIM Research Corp., the leading startup commercializing AI-based manufacturing powered by Physical AI technology. DAIM's platforms have been successfully deployed by major global manufacturers, including Samsung Electronics, LG Electronics, SK On, and LG Energy Solution, demonstrating large-scale industrial adoption and real-world impact.

References

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C. Matthias Schilz
Vice President
ams-OSRAM, Bavaria, Germany



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D. Chavet
Senior Director & Global Head of Manufacturing IT
Micron Technology, Singapore, Singapore



F. Lobo
CEO
Critical Manufacturing, Porto, Portugal



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Didier Chavet is the Senior Director and Global Head of Manufacturing IT at Micron Technology, leading the strategy, delivery, and operations of Manufacturing IT capabilities supporting Micron's worldwide semiconductor manufacturing network. With more than two decades of experience in the semiconductor industry, he is responsible for the technology platforms and operational systems enabling highly automated front-end and assembly & test manufacturing across Micron's global factories.

Throughout his career at Micron, Didier has been at the forefront of digital transformation initiatives that have significantly advanced manufacturing automation, operational excellence, and factory intelligence. He played a pivotal leadership role in the development of Micron's vision for highly autonomous "Lights Out" manufacturing operations, helping drive the integration of advanced automation, manufacturing execution systems, and data-driven decision-making capabilities across the company's assembly and test operations. More recently, Didier has been leading Micron's Assembly & Test (AT) Modernization Program, one of the company's most strategic manufacturing transformation initiatives. This program is reimagining the technology foundation of Micron's Assembly & Test network through modernization of manufacturing platforms, standardization of global processes, and adoption of next-generation digital capabilities that improve scalability, resiliency, and operational agility.

A strong advocate for innovation and emerging technologies, Didier also drives the incorporation of Artificial Intelligence and advanced analytics into manufacturing operations. Under his leadership, Manufacturing IT

has accelerated the use of AI-powered solutions to enhance operational efficiency, predictive decision-making, automation, engineering productivity, and factory intelligence. His focus is on transforming data into actionable insights while enabling smarter, more autonomous manufacturing ecosystems. Having lived and worked across Asia, North America, and Europe, Didier brings a global perspective to technology leadership and organizational transformation. His international experience, coupled with deep expertise in semiconductor manufacturing and digital innovation, enables him to lead diverse global teams while delivering large-scale business and technology transformations that support Micron's continued growth and competitiveness.

Francisco Almada Lobo is recognized as a top strategic thought leader and evangelist on digital transformation, specifically Industry 4.0, manufacturing operations and the factories of the future. He holds an MBA and an Electrical Engineering Degree from the University of Porto. He started his career in a CIM R&D Institute and joined Siemens Semiconductor in 1997. Throughout his tenures at Siemens, Infineon and Qimonda, he specialized in optimizing highly complex, discrete manufacturing operations. In 2004, he led the first migration of an MES system in a running high-volume facility. Francisco Almada Lobo holds various positions within the smart manufacturing and venture capital industries, including being a Member of the 200M Fund's Investment Committee, Executive Committee Member of SEMI Smart Manufacturing Technology, Member of the Forbes Technology Council and Advisor to many Industry 4.0 startups. Francisco Almada Lobo co-founded Critical Manufacturing in 2009 and has been CEO since 2010.

References

Closing Remarks

G. Notarnicola
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