



# *Arnold Chen*

Associate Professor  
Purdue University

*Monday, May 13, 2024*

10:00 AM • MSEE 112

11:15 AM • MSEE 112

## **Purdue Semiconductors: Leveraging our assets**

Zoom: <https://purdue-edu.zoom.us/j/96966386146> ~ Meeting ID: 969 6638 6146

**Abstract:** It's evident that there is, and will continue to be, a shortage of skilled semiconductor engineers. In this presentation, I will outline a vision for establishing a scalable, living laboratory centered around the Birck Nanotechnology Center. This model draws from my industry background in hiring and training semiconductor process engineers, as well as my observations in academia regarding successful experiential learning approaches.

## **Semiconductor Lean Manufacturing Practices**

Zoom: <https://purdue-edu.zoom.us/j/91451474519> ~ Meeting ID: 914 5147 4519

**Abstract:** At Infinera, we developed the world's first large-scale InP photonic circuit. As a key member of the manufacturing team, I played a pivotal role in transitioning this groundbreaking product from R&D to full-scale production, despite skepticism from industry experts who deemed our goals unattainable. In this talk, I will share several case studies illustrating how I applied lean manufacturing principles to solve real-world challenges encountered on the manufacturing floor.

**Bio:** Arnold Chen is currently a visiting associate Professor of Engineering Practice in the Elmore Family School of Electrical and Computer Engineering. He is currently co-instructing the Ideas to Innovation course series for Master's students in the project track. Previously he served as the managing director for the Burton D. Morgan Center for Entrepreneurship at Purdue University. With expertise spanning startup companies (particularly in semiconductor hardware), culture, team building, manufacturing, and operations, he has navigated various startup stages, from garage beginnings to IPO.

Before joining Purdue, Arnold spent 17 years in Silicon Valley, where he worked at three different startups, including one acquisition and one IPO. Throughout his tenure, his roles predominantly focused on operations and semiconductor manufacturing. A Purdue alumnus (BSEE'91), Dr. Chen earned his M.S. ('93) and Ph.D. ('96) degrees in Electrical Engineering from the University of Illinois at Urbana-Champaign.

**Host:** Professor Carla Zoltowski, [cbz@purdue.edu](mailto:cbz@purdue.edu), 765-494-2382



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