Opportunity in Motion: Enhancing Design Education at Purdue

Abstract:

Technological innovation is accelerating at an exponential rate. Today's young engineers will interface with robotics, artificial intelligence, and other exponential technologies during their careers, bringing exciting new entrepreneurial opportunities, but also posing skill relevancy challenges. As educators, we’ll provide these young future leaders with the skills they need to thrive in the new technological and economic landscape. The presentation discusses these issues and plots a path forward for the senior design class, ME 463. Through this class, the students gain experience that can provide a framework for honing the critical skills needed to succeed in that brave new world.

Biography:

Dr. Yoshimi Ruth Takeuchi, a candidate for the Director of Senior Design, graduated with a PhD in Mechanical Engineering from Purdue in 1997. She spent her spacecraft industry career frequently mentoring young interns and new hires. From these interactions, she realized that exponential technologies change our working environments and the need to stay relevant will drive educational goals. She chose to go back to school and graduated from Pepperdine University with an MBA last August. She feels that an innovative blend of business and engineering is key for success among the fast changing technological trends.