



Faculty Member

Timken Foundation Center for Precision Manufacturing

Contact Information



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Teaching Interests and Expertise

- Hydraulics and Pneumatics
- Thermodynamics
- Fluid Power Engineering
- Mechanism Design
- Renewable Energy

Research Interests

- Curriculum and Instruction in engineering education
- Divergent and convergent thinking in engineering design
- Teaching design, creativity, and innovation in the engineering curriculum
- Front end design processes: problem finding and framing methodologies, ideation techniques, problem solving methodologies, group innovation processes.
- Psychology of creativity and innovation

Industry Experience and Technical Competencies

- Creativity and innovation in engineering design training
- Hydraulic / pneumatic circuits and components training
- Hydraulics troubleshooting training