



Faculty Member

Timken Foundation Center for Precision Manufacturing

Contact Information



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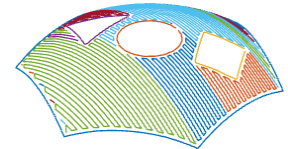
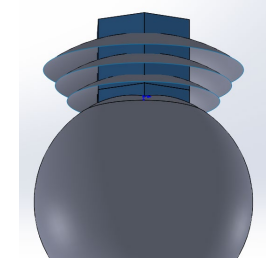
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Research Interests

- Additive Manufacturing Process and Materials
- Multi-scale, Multi-material Additive Manufacturing
- Rubber 3D Printing
- Ceramic/Metal 3D Printing
- 3D Printing of Smart Structures – Sensors, Actuators, and Electronics
- 3D Printing of Biomedical Devices/Structures

Sample Research I: Conformal 3D Printing

- 3D printing of a structure on a freeform surface
- Freeform slicing algorithm
- 3D printing on an existing surface



Sample Research II: Liquid-Bridge Micro-Stereolithography

- 3D micro-printing by vat photopolymerization
- A liquid bridge was used to remove a vat
- Multi-material, high-viscosity photopolymers are use

