



Professor Hector R. Siller

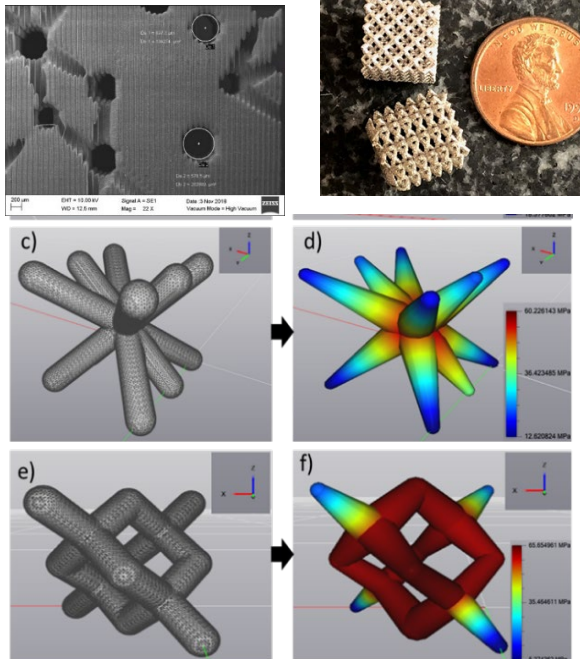
Department of Mechanical Engineering

Assistant Professor

Advanced Manufacturing: Additive Manufacturing, Micromechanical Processes, Metrology and Digital Manufacturing

Research Group: 4 Ph.D. and 3 M.Sc. students

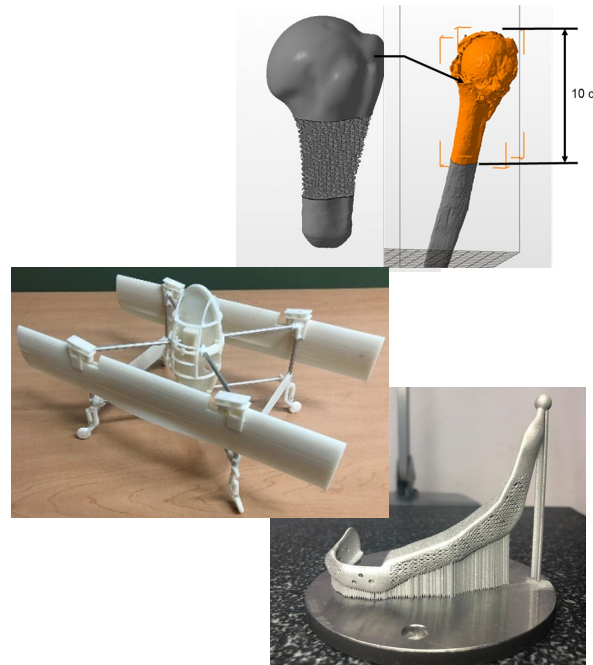
Structural Optimization



Ongoing Research:

- Topology Optimization of Lightweight Structures
- Lattice Structural Optimization

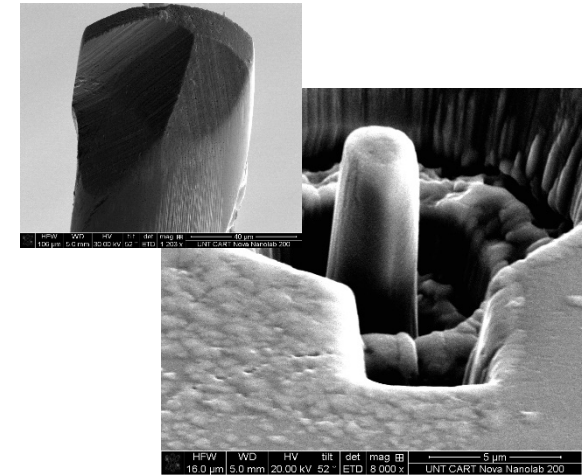
Additive Manufacturing



Ongoing Research:

- Process Lifecycle Assessment
- Hybrid Manufacturing (Additive + Subtractive)
- Surface Integrity

Micromechanical Fabrication and Characterization



Ongoing Research:

- Micromachining of Sculptured Surfaces
- Focus Ion Beam machining
- Surface Mechanics by Nanoindentation