**STUDENT:** Jo, Myeong Chan
**ADVISOR(S):** Guldiken, Rasim

Continuous Electrowetting in Passivating and Non-passivating Systems
**STUDENT:** Khodayari, Mehdi
**ADVISOR(S):** Crane, Nathan / Volinsky, Alex

***Spring 2013***
Hydrogen Storage in Hypercrosslinked Polystyrene and Li-Mg-N-H Complex Hydride
**STUDENT:** Demirocak, Dervis
**ADVISOR(S):** Kumar, Ashok / Stefanakos, E.K.

Analytical and Numerical Modeling of Assembly Procedures of Steel Fulcra of Bascule Bridges
**STUDENT:** Garapati, Sri Harsha
**ADVISOR(S):** Dubey, Rajiv / Kaw, Autar

Analytical Modeling, Perturbation Analysis and Experimental Characterization of Guided Surface Acoustic Wave Sensors
**STUDENT:** Onen, Onursal
**ADVISOR(S):** Guldiken, Rasim

***Spring 2012***
The Creation of a Robotics Based Human Upper Body Model for Predictive Simulation of Prostheses Performance
**STUDENT:** Lura, Derek
**ADVISOR(S):** Dubey, Rajiv

***Fall 2011***
Regulation of Cell Adhesion Strength by Spatial Organization of Focal Adhesions
**STUDENT:** Elineni, Kranthi Kumar
**ADVISOR(S):** Gallant, Nathan

Interface Engineered Diamond Coatings for Dry Machining Applications
**STUDENT:** Gomez, Humberto
**ADVISOR(S):** Kumar, Ashok

Thermophysical Characterization of Nanofluids through Molecular Dynamic Simulations
**STUDENT:** Shelton, John
**ADVISOR(S):** Pyrtle, Frank III

***Summer 2011***
Theoretical and Experimental Analysis of Power and Cooling Cogeneration Utilizing Low Temperature Heat Sources
**STUDENT:** Demirkaya, Gokmen
**ADVISOR(S):** Goswami, D. Yogi

***Spring 2011***
Thermo-Mechanical Beam Element for Analyzing Stresses in Functionally Graded Materials
**STUDENT:** Caraballo, Simon
**ADVISOR(S):** Kaw, Autar

Diamond Based-Materials: Synthesis, Characterization and Applications
**STUDENT:** Hu, Qiang
**ADVISOR(S):** Kumar, Ashok

***Fall 2010***
Consumable Process Development for Chemical Mechanical Planarization of Bit Patterned Media for Magnetic Storage Fabrication
**STUDENT:** Bonivel, Joseph
**ADVISOR(S):** Kumar, Ashok

***Summer 2010***
Functional Nanomaterials with an Electrochemistry-Based Approach to Sensing and Energy Applications
**STUDENT:** Weber, Jessica
**ADVISOR(S):** Kumar, Ashok

***Summer 2009***
Development and Investigation of Novel Nanostructures and Complex Hydrides for Hydrogen Storage
**STUDENT:** Niemann, Michael Ulrich

***Fall 2004***
Intelligent Telerobotic Assistance for Enhancing Manipulation Capabilities of Persons with Disabilities
**STUDENT:** Yu, Wentao
**ADVISOR(S):** Dubey, Rajiv

***Fall 2002***
Effect of Dimensional Conformance of Threaded Product on Yield and Tensile Strength
**STUDENT:** Leon, Fransisco
**ADVISOR(S):** Hess, Daniel

***Summer 2002***
Vibration Induced Loosening of Threaded Fasteners: Mechanisms, Modeling and Design Guidelines
**STUDENT:** Pai, Niranjan
**ADVISOR(S):** Hess, Daniel

***Spring 2002***
Analysis of a Thermal Contact Conductance Experiment
**STUDENT:** Hook, Randolph
**ADVISOR(S):** Crane, Roger

A Numerical and Experimental Investigation of Direct Acting, Differential Area Relief Valves
**STUDENT:** Pennington II, Robert E.
**ADVISOR(S):** Porteiro, Jose

***Summer 1998***
Fastener Dynamics: Optimum Placement, Effect of Thread Dimensional Comformance, and Threadlocker Life
**STUDENT:** Dong, Yubo