USF Class Projects: “Minds and Machines”
Haptics & Kinematics/Dynamics of Machinery

What is Haptics? Reach into a pocket full of change and take out a dime. How did you know it was not a penny or a quarter? Can you perform this same task if you put gloves on? Probably not since you have lost the haptic sense and can no longer feel the difference between the coins. The students in the Haptics class have put several projects together demonstrating and exploring aspects of haptics for you to come and experience.

Some of the projects include:
- Vibratory Feedback on Posture
- Backward Brain Bicycle
- Balance-Assisting Waist Belt
- Bimanual Guidance Methods
- Virtual Reality for Rehabilitation
- Simon Says...Haptic Version
- Ultrasonic Vibration Gloves
- IKEA or Standard Shopping Carts?
- Automatic Slicers
- Catapult Launching Things
- Hydraulically-Driven Robot Arm

Date: Friday, April 28th
Time: 2:00pm until 4:00pm
Location: MOSI
Museum of Science and Industry
4801 E Fowler Ave, Tampa, FL 33617

Contact Dr. Reed at 813-974-2385 or kylereed@usf.edu if you have any questions.

Kinematics is the study of motion. Want to understand how to make a catapult or automatic drink dispenser? The students in Kinematics and Dynamics of Machinery will demonstrate their contraptions to perform a wide range of tasks. Come check them out.

Backwards bicycle turns left when you turn right. Do you think you have what it takes to ride on it?

Haptic glove lets you interact with virtual objects while receiving feedback.