LEMUR

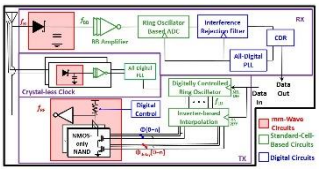
Laboratory for Embedded Machines and Ubiquitous Robots

1538 Boelter Hall

OPEN HOUSE

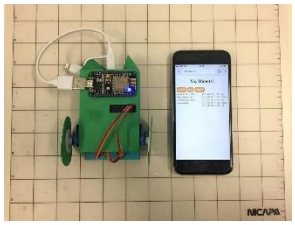
Thu., Apr. 26 2018, 1-3pm

Demos and Presentations

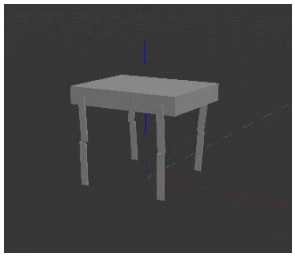


Synthesizable Radio:
A design process to digitally synthesize a complete RF transceiver chain for easy and efficient retargetting of communications hardware

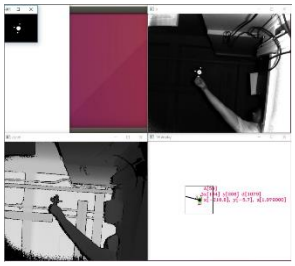
Design for Everyone:
Algorithms, methods, and tools to allow end-users to leverage the knowledge of engineering experts to create validated and verifiable manufacturable designs for custom objects



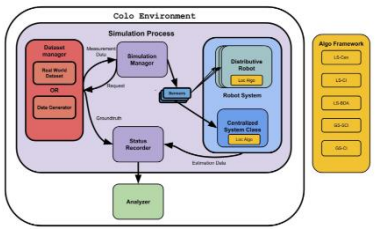
ROCO:
A Python based system designed to allow for the creation of printable robots through an easy to use web interface



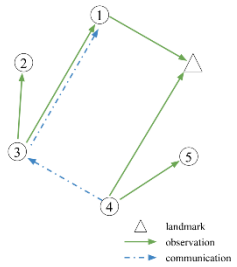
Optimization of Robot Control and Structure:
Using reinforcement learning to build better robots through the co-optimization of robot control and structure



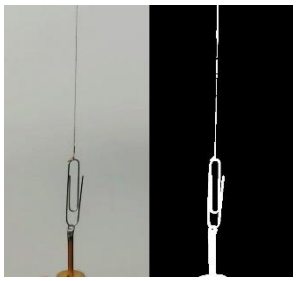
Underactuated UAVs:
Design and manufacture of a single-motor robot flyer with the ability to communicate and ultimately form a swarm



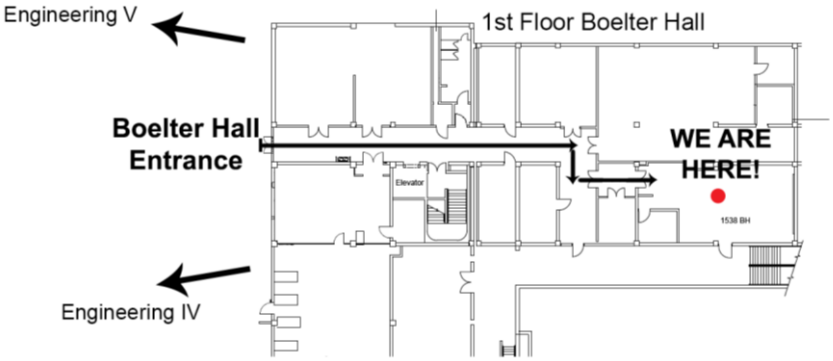
CoLo:
A simple and portable simulation environment for cooperative localization



Distributed Algorithms:
Development and analysis of algorithms for networked sensing and state estimation across multi-robot swarms



Printable Actuators:
Automate the production of SCP actuators with custom specifications for target requirements



Refreshments will be provided!