LEMUR

Laboratory for
Embedded **M**achines &
Ubiquitous **R**obots
https://uclalemur.com

1538 Boelter Hall

OPEN HOUSE
## Fri, Apr 14, 2023, 2-4pm
Demos and Presentations
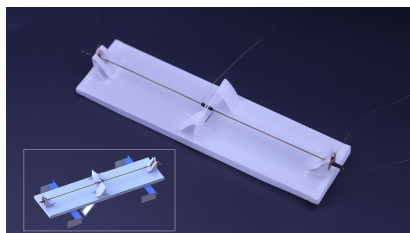
Printable Mechanical Autonomy
Building printable autonomous robots in an inexpensive and rapid prototyping manner by embedding sensing, control, and actuation into materials.


Remote Control Blimps
These were built for an autonomous aerial soccer game, but have been reprogrammed to be remote control for a fun and interactive demo. It's also got pretty flashing lights.
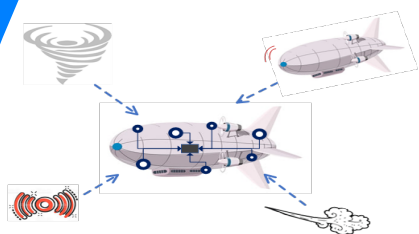

Sensor Planning Framework
Building framework for decentralized state estimation that optimally allocates different collaborative agents based on their limited measurement capabilities and uncertainties, leading to improved overall estimation performance.
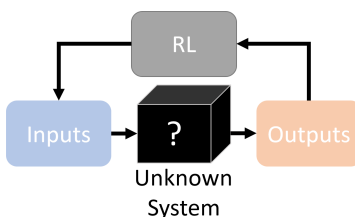

Reinforcement Learning for Unknown Systems
Designing and using reinforcement learning to optimize an agent or robotic system. Specifically applied within motion planning and robotic system controls.
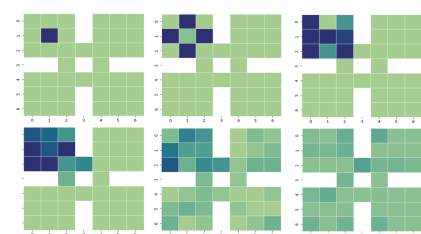

Scalable Decentralized Multi-agent System
Let large-scale multi-agents learn to achieve a Nash equilibrium in an evolutive environment from any initial distribution in a decentralized way.
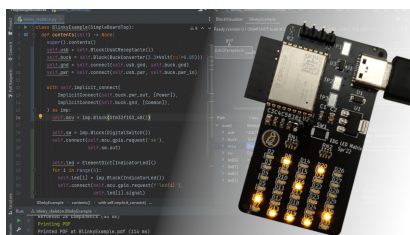
Electronics Design Language
More expressive, automated, and powerful board-level circuit design using programming techniques in a mixed textual / graphical interface.
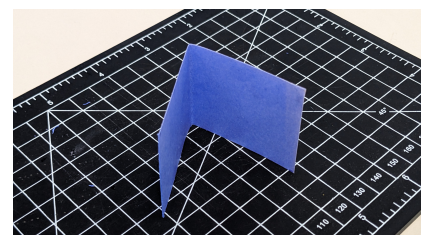
Capturing plastic behaviour of origami folds
Simulating non-linearities of paper folding, to tailor mechanical properties of origami

Our lab is in **1538 Boelter Hall**
Come visit, there will be food!

Enter the building using the indicated doorway on the first floor

Eng 5
Eng 6
Eng 4
Boelter