

# EN1-06: Simple Robotics

September 21st, 2016



# Schedule

- In the News
- Schedule: this Friday/next Friday
- Batteries Update
- Partner Survey
- Assignment 2: Sensor Investigations

## Hacker-Proof Code Confirmed



“They were not able to break out and disrupt the operation in any way,” said Kathleen Fisher, a professor of computer science at Tufts University and the founding program manager of the High-Assurance Cyber Military Systems (HACMS) project. “That result made all of DARPA stand up and say, oh my goodness, we can actually use this technology in systems we care about.”

<https://www.quantamagazine.org/20160920-formal-verification-creates-hacker-proof-code/>

# Tufts MAKE Update

Tufts MAKE will be meeting this **Friday (9/23) from 1:00-3:00 in 574 Boston Ave, Room 202**. In this meeting, we will focus on our project designs, particularly the supply lists, project timelines, team members/roles, and initial design focuses for each project. Depending on our turnout, we will probably make a final decision about whether or not to pursue a second project this semester in the form of a robotic instrument setup.

I would recommend that **everyone come with a laptop** for some quick research about parts and design, but otherwise just bring your creativity! I would love to see our first iteration of the go-kart project be a simple but interesting prototype, so come with ideas about how we can make our first iteration particularly cool.

If you cannot make it but still want to be placed on a team, or if you did not make it to the GIM last week, there is no need to fear! You can expect plenty of weekly project meetings in the coming weeks, so there is still plenty of time to get involved and find your way onto a project team.

# Battery Update: Bray Labs, 504 Boston Ave



2nd Floor  
Design Lab  
Rm 206



# Partner Survey

[https://docs.google.com/forms/d/e/1FAIpQLScolrx4kx\\_h5K9axf68oJu8PekFC\\_h8Jo0E8zTFkXt8By0qcgQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLScolrx4kx_h5K9axf68oJu8PekFC_h8Jo0E8zTFkXt8By0qcgQ/viewform)

Link on course website homepage: <http://dreslab.com/robotics2016>

# Assignment 2: Sensor Investigations

You are to choose one of the sensors (color/light sensor, ultrasonic sensor, or gyro sensor) and investigate its properties and tolerances. This might include: range, angle, scale, and other important characteristics, depending on which sensor you choose.

Documentation due to website **BEFORE CLASS** on Mon, Sept 26th, 2016

Project (in-class presentation) due on **Monday, September 26th, 2016**

# Sensor Investigations Brainstorm

**Color/Light Sensor**

**Gyro Sensor**

**Ultrasonic Sensor**



# Website

From Trunk, click “Dr. E’s Lab” in the left menu.

This should create an account and sign-you-in automatically. Note that you should use this link from Trunk to access the site in the future (e.g. if you get signed out).

Website will hold Lectures, In the News, Projects (details and your documentation), and links to Help Videos.

