MEng Design Project Announcement – 2017

Project title: ECE Promotional Display Technology

Brief Description of Design Project Goals:

Overview:

ECE often takes part in events talking to the public. We would like a set of demonstrations which show off ECE concepts and techniques and which are packaged to be robust and reusable.

Specific MEng Contribution:

The students will design and build a set of demonstrations which might include LEDs, music synthesizers, robots or other ECE-related device. The key here is that all devices must be reduced to fully packaged, robust devices with documented controls. Batteries (if any) must be easily replaceable and in holders. The device must be capable of being dropped and continuing working. Knobs, keypads, dials, etc. must be clearly labeled and useful. Tiny displays are not useful. We want BIG stuff.

ECE Field Advisor Name: Bruce Land and Joe Skovira

- Email - brl4@cornell.edu, jfs9@cornell.edu
- 214 Phillips Hall, 211 Phillips Hall

Number of MEng Students Needed: 2

Required Skills:

Familiarity with electronic construction techniques, microcontroller programming, power electronics. Ability to work with staff to make a useful product.

Estimated Project Time Frame: 2017-18 AY (2 semesters)