

EE100 Final Project

The final project for this course will occupy 3-4 weeks of lab time, beginning on November 9. You may select a project yourself or do the one pre-designed for you. If you want to design your own project, you must first clear it with the head lab GSI (David McGrogan) so he can make sure that it is of appropriate difficulty and that the parts you need will be available. Groups should be about the same size as normal lab groups, and it is suggested that you work in your existing groups on the project.

The pre-designed project will be to construct a small robot. The basic elements of this project are as follows:

- Build the mechanical chassis from provided parts (motors, batteries, wheels, etc.), including soldering wires to switches.
- Learn about H-bridges and use them to make a motor driver interface for the microcontroller.
- Use the microcontroller to make the robot move in complex ways and react to stimuli such as touch.

Begin thinking now about whether you want to do the robot project or a different one. Remember, if you choose to do your own project, you need to get approval by Nov. 9.