Your textbook, written for this course, strives to identify and introduce the durable intellectual ideas of embedded systems as a technology and as a subject of study. The emphasis is on modeling, design, and analysis of cyber-physical systems, which integrate computing, networking, and physical processes.

Use edition 1.5, a prerelease of the Second Edition!

http://LeeSeshia.org/prerelease.html
The Lab Manual is a work in progress. Please help us make it better by offering constructive suggestions and correction.

Download package including lab manual and documents it links to from:

http://LeeSeshia.org/lab
Course Project
An important component of the course

We will give you topics because of the large number of enrolled students.
Under special circumstances, we may accept projects proposed by students, but only if they are highly innovative. Be careful, many proposals we got in the past were HARD to achieve in the time allotted.

See past projects on the course website.
• Project highlights video: https://www.youtube.com/watch?v=CqK6ttxt0Wc

Some Previous Projects

Biomimetics
Face Tracking
Autonomous Flight

Distributed Music
Robot Train
Robot Swarm
Example Project:

One of the five project teams in 2008 developed a balancing robot inspired by the Segway. They used a Nintendo Wiimote as a controller communicating with a PC running LabVIEW, communicating with a Lego Mindstorm NXT, which they programmed in C.

Project for 2014......