

OLIN COLLEGE OF ENGINEERING

Controls: Theory and Practice
ENGR 3370

Design Project
Deliverables

Issued 2 Apr 2015
Due Final Exam Period 2015

Progress Checkoff: Week of 6 Apr 2015

Make an appointment to meet individually with the professor to discuss and demonstrate your hardware.

MIT Swapfest: 9am, Sun., 19 Apr 2015

The MIT Radio Society's electronics flea market is a good chance to look for those last-minute items that you may or may not need for your project. For extra credit, check in with Professor Lundberg at the event before 11am. (The really good deals are usually gone by 10am, anyway.) For more information: <http://w1mx.mit.edu/flea-at-mit>

Status Report: Tue., 21 Apr 2015

A first draft of your final report, including documentation of your completed design, expected results, and the current status of your hardware.

Demonstration: Week of 27 Apr 2015

Make an appointment to meet individually with the professor to discuss and demonstrate your finished project.

Final Report: 30 Apr 2015

Complete documentation of your project, including the analysis, modeling, and measurement of the plant, the design and construction of the hardware, and the compensation and achieved performance of the final control system.

Presentations: Final Exam Period 2015

The final meeting of the term will be dedicated to design-project presentations from you and your classmates. Your presentation should be short, organized, and rehearsed. A fifteen-minute talk, with a few overhead slides, is all that is required. (Schematics, root-locus plots, and Bode plots are always a tasteful choice.) Bring one paper copy of your presentation slides to class. Your goal is to explain the tradeoffs and choices that you made, summarize the performance you achieved, and discuss improvements you could have (or should have) made. Clever designs always spark interest and discussion, so be prepared to answer questions about your project.

These presentations are an integral part of the class. There is much to be learned from the trials and tribulations of others.

Drop-Dead Date

No work of any kind will be accepted after Final Exam Period 2015.