Linear Feedback-Control Systems Lab

Thursday, 9:00am–11:50am & 1:30pm–4:20pm, Holmes 386

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Instructor Office Hours: anytime
TA: Clay McKell, Holmes 390, E-mail: mckell@hawaii.edu
TA Office Hours: Tuesdays 1:30-2:30pm in Holmes 386 or by appointment in Holmes 390
Site of announcements, handouts, labs, etc.

Policies: No credit will be given to late lab reports.
Attendance is mandatory.
Grades are weighted 30% Participation, 30% Pre-labs, 40% Reports.
All work must be original.

Lab Experiments

1. MATLAB Structure and Use
2. Modeling and Digital Simulation Case Studies
3. Introduction To Data Acquisition and Real-Time Control
5. Servo Position Control Design Project (Position and Rate Feedbacks)
6. Speed control Design Project (Velocity Feedbacks)
7. Position Control Design Project (PD controller Root-locus Design)
8. Position Control Design Project (Phase lead controller Root locus Design)
9. Ball and Beam Design Project
10. State variable modeling and Introduction to MATLAB Control System Toolbox