

EECS 106B/206B

Discussion 13

GSI: Valmik Prabhu



Action Items

- Lab 2 due this tonight, late deadline wednesday
- HW 4 due this sunday
- Office hour schedule change:
 - Valmik's OH Monday 4-5, Weds 12-1
 - Chris' OH Thursday 1:30-3:30
- Project Proposals due 3/22. More info forthcoming
 - Very broad. Must involve at least one of: sensing, actuation, or control
 - Must involve hardware, either IRL or in simulation (discouraged)
 - Must be research-based. You'll need to find papers backing up your proposal
- Lab 3 delayed 'till Wednesday

Lab 3

- Steering and control of nonholonomic “bicycle” robots
- Turtlebots + Turtlesim
- Tasks:
 - Develop a closed-loop controller on the Lie algebra of a car
 - Implement Murray + Sastry’s steering with sinusoids algorithm (open-loop control)
 - Grad Students: Develop a closed loop controller on the steering with sinusoids algorithm
- For you to do:
 - Skim the Murray Sastry steering with sinusoids paper by discussion on Weds