

UNIVERSITY OF CALIFORNIA
College of Engineering
Department of Electrical Engineering and Computer Sciences

EECS 249
Fall 2012

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Lab 1: Elevator Control – Phase 1
Due Thursday, September 20, 2012

Lab 1 is based on Ptolemy II. Useful links and instructions for installation can be found on the class website. It is recommended that you also look at the tutorial and go through some of the examples and demos before starting the assignment.

Design the control for a simple elevator that only responds to external requests. You can assume that there are 5 floors to be handled in total. Moreover, your design must satisfy the following requirement:

- a) the elevator keeps going in one direction (up or down) until all the requests in that direction are serviced;
- b) if there are no pending requests beyond current floor, the elevator changes direction or stops until further requests come in.

Create a simulation environment that shows the elevator working with different inputs. Email the project files to nuzzo@eecs.berkeley.edu.