

ECE 551

Homework #4

Due: Tuesday April 18 9:30am

Please Note: For this homework, you *must*:

- Use informative module/signal/port names whenever at all reasonable to do so.
- Work as a team and submit only one

Problem 1 (30pts) Motor Controller Design

See the Project Specification and implement the motor controller module.

Submit to the dropbox:

- Your motor controller design **motor_cntrl.v**
- Your motor controller design testbench **motor_cntrl_tb.v**
- Proof of some form that you ran the testbench
motor_cntrl_waveform.png

Problem 2 (70pts) Barcode Reader Design

See the Project Specification and implement the barcode reader module.

Submit to the dropbox:

- Your motor controller design **barcode.v**
- Your motor controller design testbench **barcode_tb.v**
- Proof of some form that you ran the testbench **barcode_waveform.png**