

# Special Topics: Simple Robots and Microprocessors

ECE 292  
Lecture Notes 5



*Reading:* Chapter 3

NC STATE UNIVERSITY

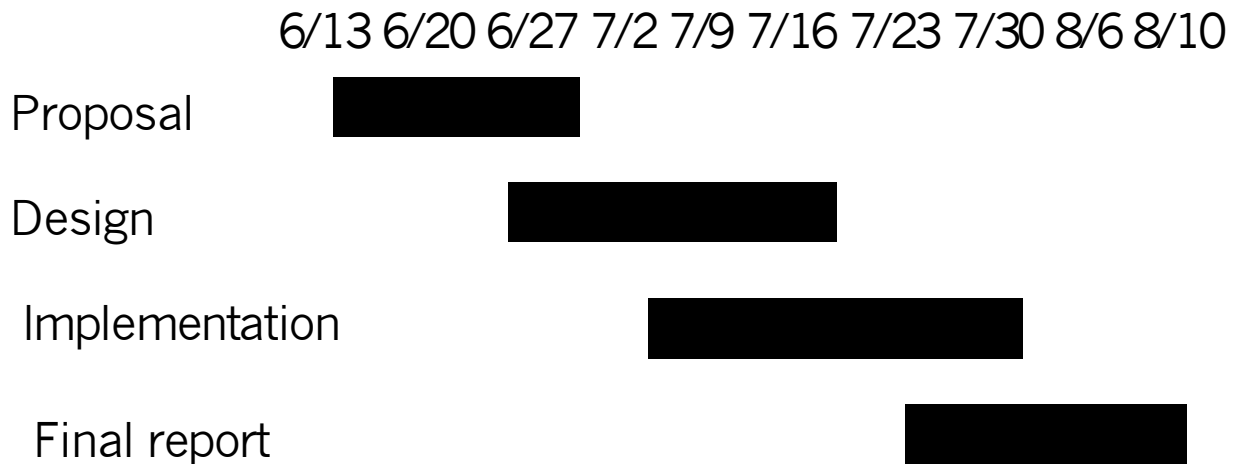
## Due on June 30<sup>th</sup> – Statement of Work

Include on the Statement of work:

- Your names
- 1 paragraph statement of work
- Estimated materials
- Approximate schedule (effort needed)
- August 6 race task
- Magazine you will write

## Make a MS Project schedule

- Proposal due 6/27
- Rough draft due 7/30
- Race 8/6
- Paper Due 8/10



## Rules of the contest

- Formica Flat track
- On board microcontroller
- Multiple Trials
- Distance based on length of robot (4x)
- One sensor
- Max size 12" by 12"
- Use only nitinol as propulsion
- Springs allowed
- Award for best design

## What's next?

- Next week we will start to examine some more embedded systems topics like:
  - polling versus interrupts
  - micro-controllers and memory architectures
  - I/O dependencies
- Visit the Parallax site (<http://www.parallaxinc.com>) and read about the Basic Stamp 2

## Lab 5 . . . . .

- Lab 5 will introduce you to the Basic Stamp 2 – architecture, code development, and software instructions.
- A separate lab assignment will be handed out.