**Application Programming for Engineers**

Walker Department of Mechanical Engineering

University of Texas at Austin

Assignment: Final Project Instructions

Pulling out and copying grading of the remaining parts of the project:

* Grading
  + The project is 30% of the course grade, and is broken down as follows:
    - ~~5% Project Proposal / Requirements document~~
      * ~~2 pts for approved proposal~~
      * ~~3 pts for document requirements in presentation/documentation~~
        + ~~0 missing... 1 vague/incomplete... 2 missing some items... 3 complete.~~
    - 15% Final report/application/documentation
      * Can the instructor/TA/students download the final project? (yes 5 pts)
      * Does the project application work? (5 pts)
        + 0 No... 1-4 Partially... 5 Yes, as proposed
      * Quality and completeness of documentation between the presentation and included documentation (5 pts)
        + 0 missing... 1 only presentation 2-4 there but lacking... 5 complete

**~~Make a “how to run this code” document (Matthew)~~**

**~~Explain what his experience is – bike there vs not, where to look~~**

**Write up how we did hardware simulation (Matthew)**

**~~Organize the github~~**

**~~Add video of the actual thing working (with hardware)~~**

**~~Upload presentation to GitHub~~**

**~~Test Flask and main thing running concurrently~~**

**~~Split off in Github the minimum product (show v0, v1)~~**

**~~Try to make a flask demo that has multiple slots or racks~~**

**------------------------------------------**

**Below is the actual document from Dr Pryor**

**Objective: Present the results of your *completed* project to the class**

Each team will make a final presentation to the class that summarizes your:

* Project objectives
* Project requirements
* Approach
  + What packages were used?
  + What algorithms or capabilities were created?
  + How effort was delegated.
* Project results
  + This can take multiple forms including a demo, video, graphs, student participation, or other substantial results
* Project links
  + Where people can access/download functional code
  + Documentation on how to use the code.
* Basics
  + Presentations must be
    - (Graduate Students) between 12 and 15 minutes.
    - (Undergraduate Students) between 10 and 12 minutes
    - Q&A will happen after the presentation(s)
    - Next team sets up during Q&A of previous team.
  + Presentations are during the class periods on the course schedule.
  + The material you must include is outlined above.
  + All team members need to play a role in the presentation
* Topic selection
  + All project topics will be approved. Some teams were given an edict to update Dr. Pryor and TAs on the scope by a certain date. Do not forget this step!
  + Changes in the project topic and/or scope must be approved!
* Grading
  + The project is 30% of the course grade, and is broken down as follows:
    - 5% Project Proposal / Requirements document
      * 2 pts for approved proposal
      * 3 pts for document requirements in presentation/documentation
        + 0 missing... 1 vague/incomplete... 2 missing some items... 3 complete.
    - 15% Final report/application/documentation
      * Can the instructor/TA/students download the final project? (yes 5 pts)
      * Does the project application work? (5 pts)
        + 0 No... 1-4 Partially... 5 Yes, as proposed
      * Quality and completeness of documentation between the presentation and included documentation (5 pts)
        + 0 missing... 1 only presentation 2-4 there but lacking... 5 complete
    - Presentation 10%
      * 2% Completeness
        + All items discussed above are present
      * 3% Demonstration: functional, clarity, presentation
        + 0 missing... 3 average... 5 excellent
      * 2% Time Compliance
      * 2% Material available for students via a provided link
        + which will be collected and put on Canvas.
      * 1% All team members contribute meaningfully to the presentation