Homework 4

ME 5194

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Observations, Feedback, Suggestions

- I am guessing that whoever enrolls in this class is passionate about learning more about programming and embedded product design. Otherwise, having to read the book to be able to do the homework might be an issue for some students that do not want to spend the necessary time.
- I am using Jupyter notebook due to its organized and "pretty" presentation capabilities with the markdown headers and separate cells. I only knew of these features from having past experience with them. For people that have never used Python before or maybe even used a different IDE, they might not know how to organize and submit their work. Presenting the students with different options and possibly showing/giving them resources on how they can format between text and code would be very beneficial. If not, it is also interesting to see what cool new features students can find from their own research.
- I was kind of expecting this class to be like Arduino but with a Raspberry Pi. I very much understand with and agree with why we have really only gone over Python programing to start this class, with the RPi content coming later on. I think it might be a good idea to just have the Python readings assigned during programming section, and the RPi assigned readings to be assigned when that topic is discussed in class. The RPi book is hard to digest, especially without reading or hearing the content again soon.
  - Unless there is a "lab" similar to Arduino where the students can begin tinkering with basic RPi functionality, but I realize the RPi is much more complex and powerful than the Arduino.
- The last few lectures where you have gone back over the book content has been very useful. I have either gotten a refresher and strengthened my understanding on the book sections that I read already, or a preview that makes reading those sections stick with me more.
- Possibly give some more context on what Python can be used for.
- More information on the different Python IDE's (which one is best for what application)
- Not sure how feasible this would be with a larger class, but maybe bringing up any Pythonic code snippets students have submitted that would be useful for students to know about
- I am not sure how relevant it is to this class, but I am really interested in how GUI's are developed and optimized!