EE 193 Project Writeup

Audience

You are writing for next year's class, who will be working on a similar IoT sensor node project. If you do a good job, next year's class will learn from, build on, and adapt your work in their own designs. If you do a poor job, they'll throw everything out and start over. (Unfortunately, I can't wait a year to assign your grades, so I'll have to pretend that I'm a student looking at your work a year from now.)

Think about the various bits of documentation that have been helpful to you — code with `README` files and comments, well-written blog posts, or example schematics. Capture all the things you wish you knew when you started working.

Structure

Your report should contain:

- **An introduction** – Enough context that a technical person could stumble upon your report without any prior knowledge of the course or your project and figure out what's going on.

- **Design overview** – This should provide a high-level overview of the design, so that your readers have a mental map of how all the pieces fit together.

- **Detailed design description** – This should include documentation for each part of your project: electronics, mechanical enclosure, software, and any build/test/flashing/deployment infrastructure. In many cases, it's sufficient to provide a link or reference to something in Github or Google Drive.

- **Current state of the project** – Describe what is working and the extent to which you have tested the system.

- **Possible improvements / lessons learned** – Explain what you would do differently if you were building another iteration of the board (or starting the project from scratch). I'll be giving these reports to next year's class, so think about what knowledge you've picked up that you'd wish you had when you started.