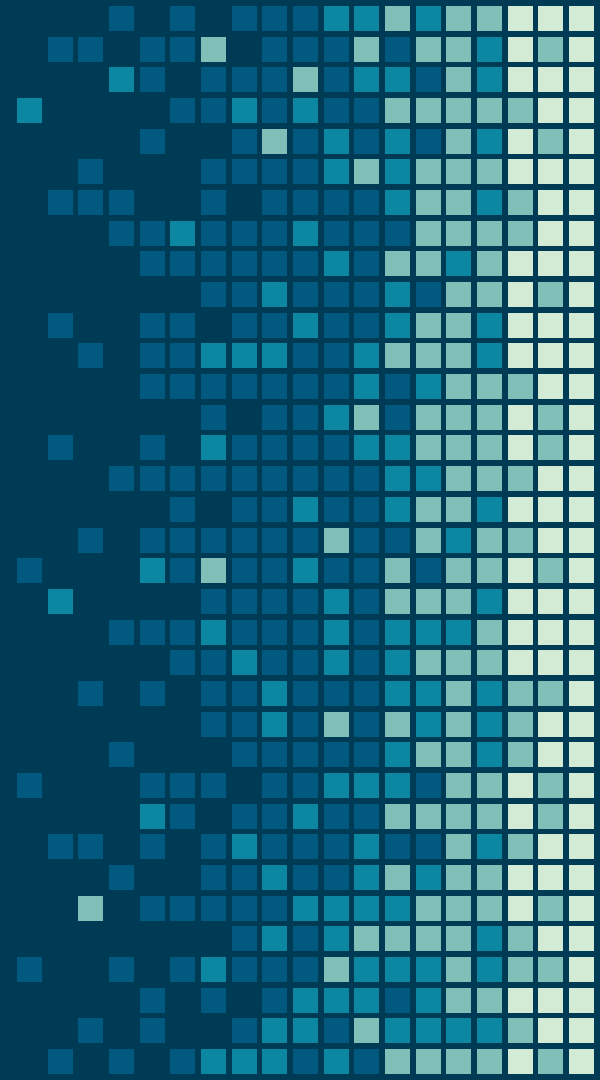


Proposal Presentation

Firmware

Spring 2018

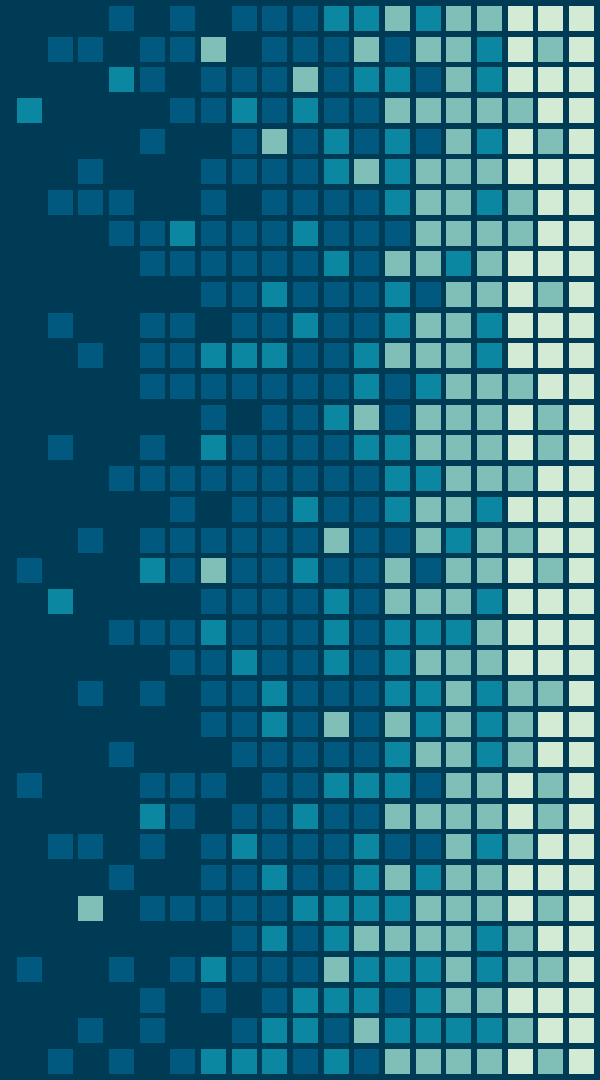


Ryan Li

Standing: Sophomore

Major/Track: Electrical Engineer/
Electrophysics

EE396

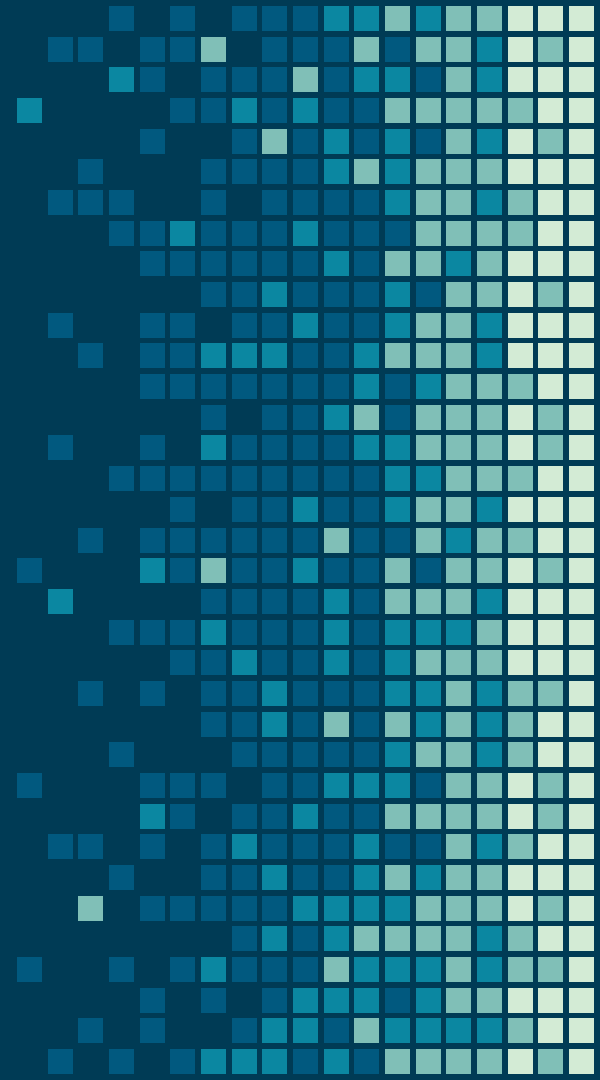


Kylie Lin

Standing: Junior

Major/Track: Computer Engineer

EE396

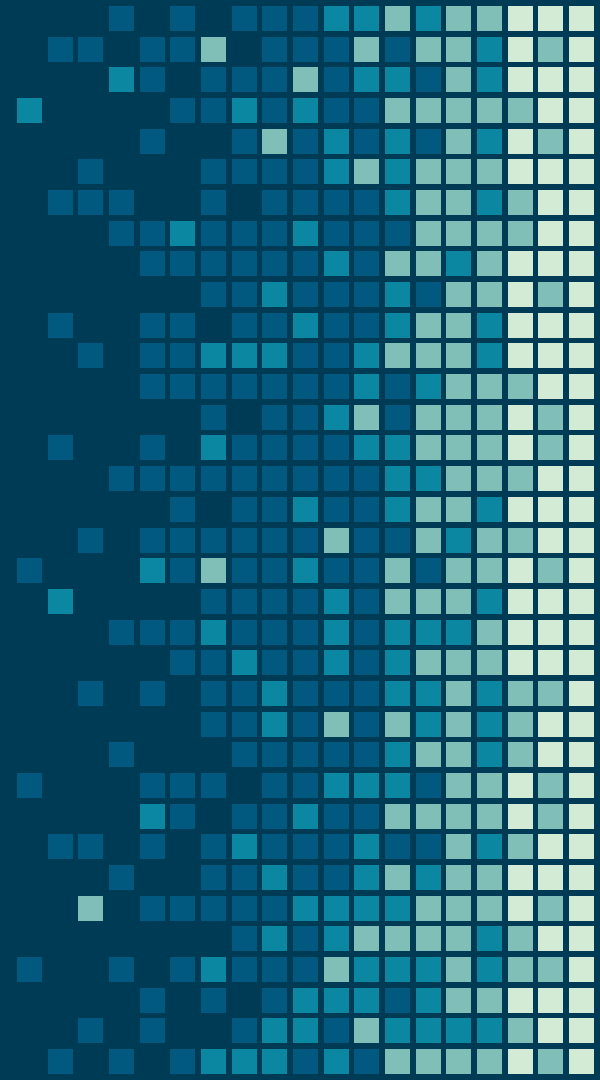


Kevin Liu

Standing: Sophomore

Major/Track: Computer Engineer

EE396

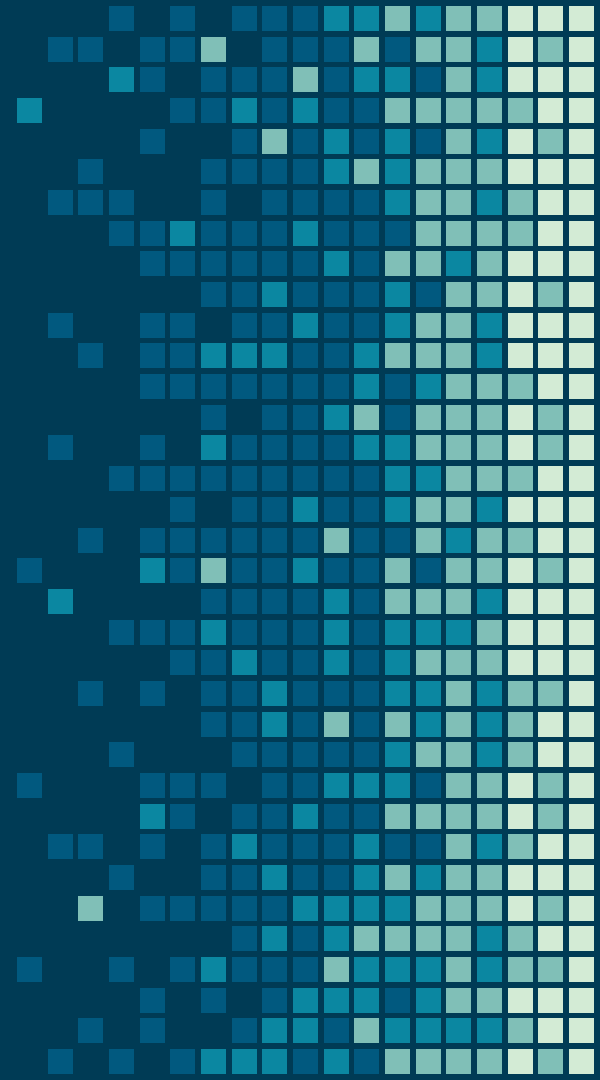


Jonathan Tu

Standing: Sophomore

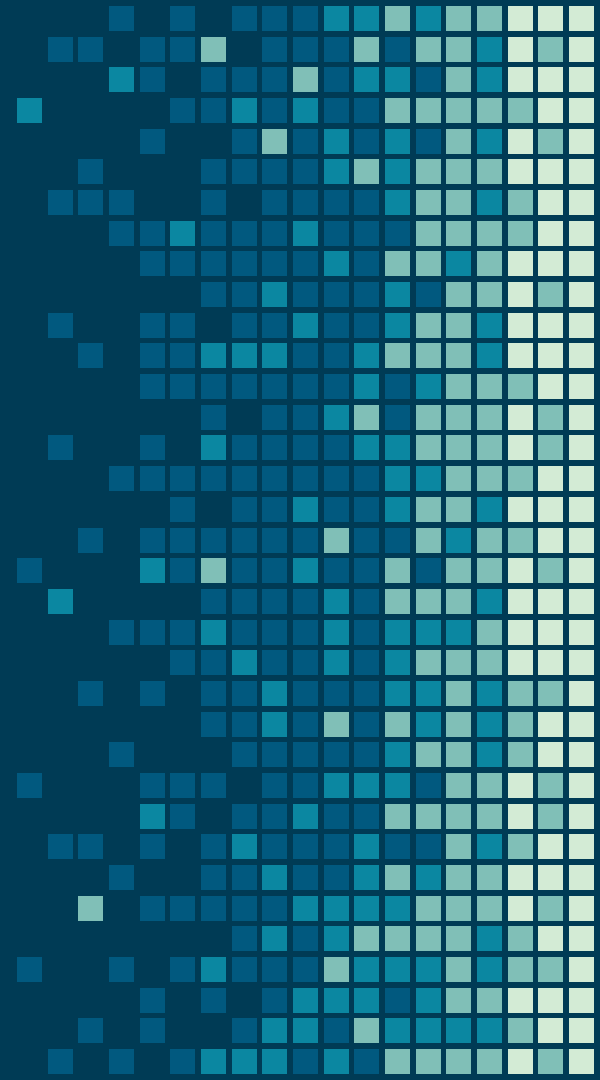
Major/Track: Electrical Engineer -
Electrophysics

EE396



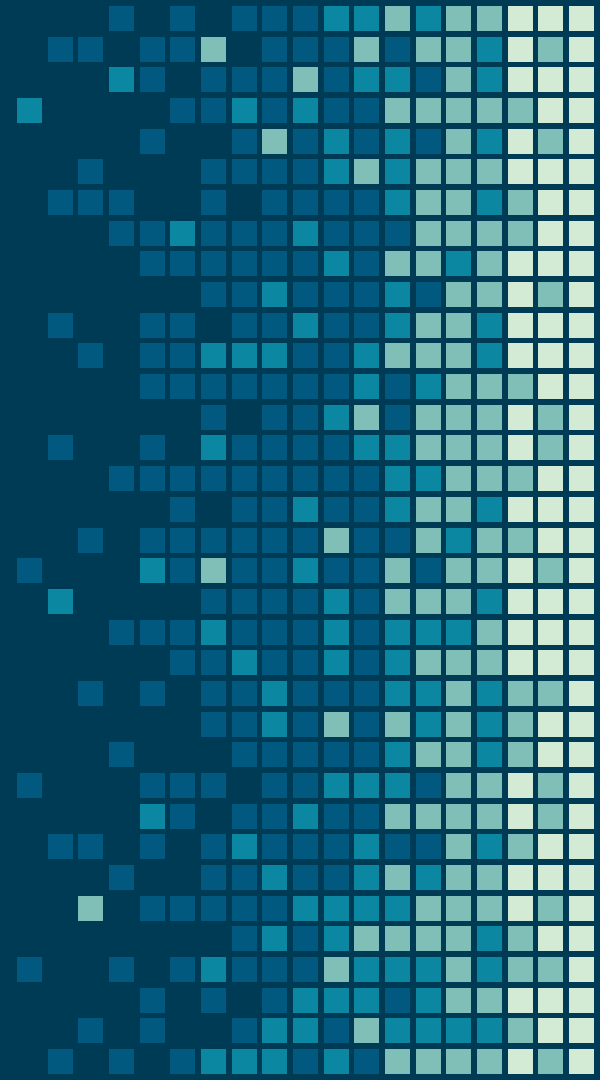
Professor Andrew Obatake

Mentor



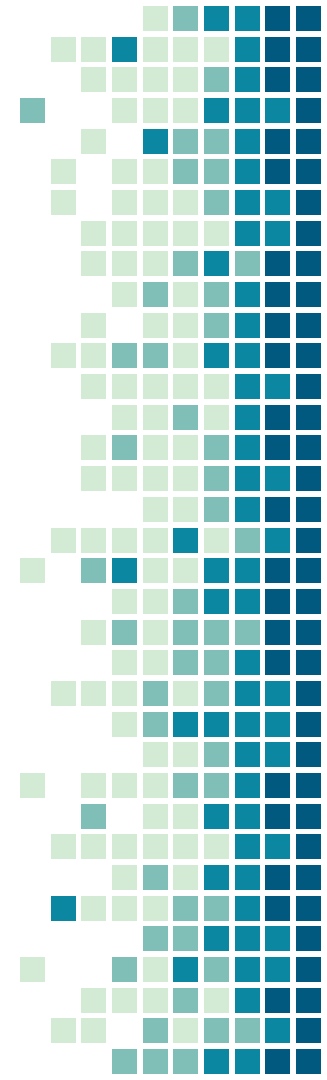
TA Dylan Tokita

Mentor

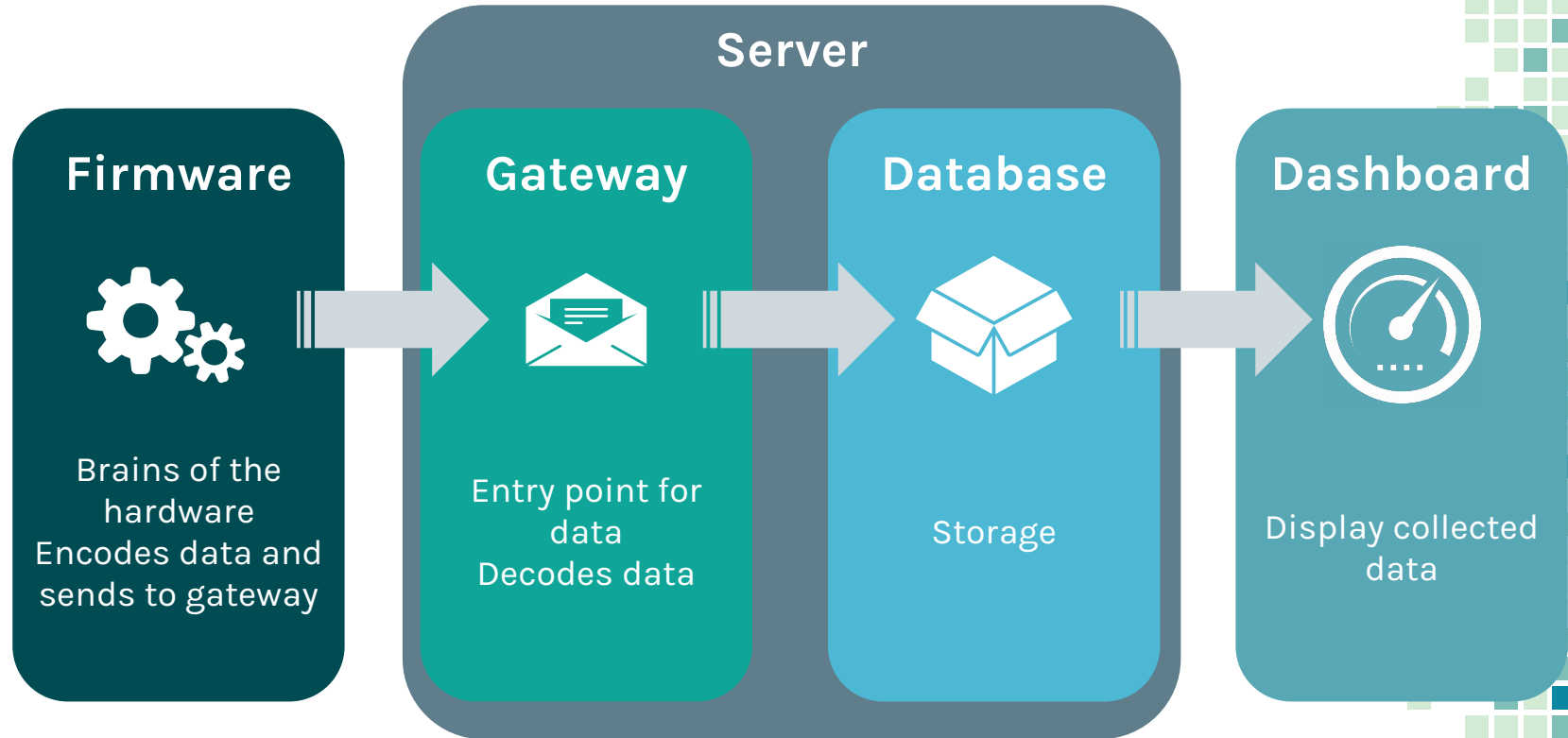


Overview

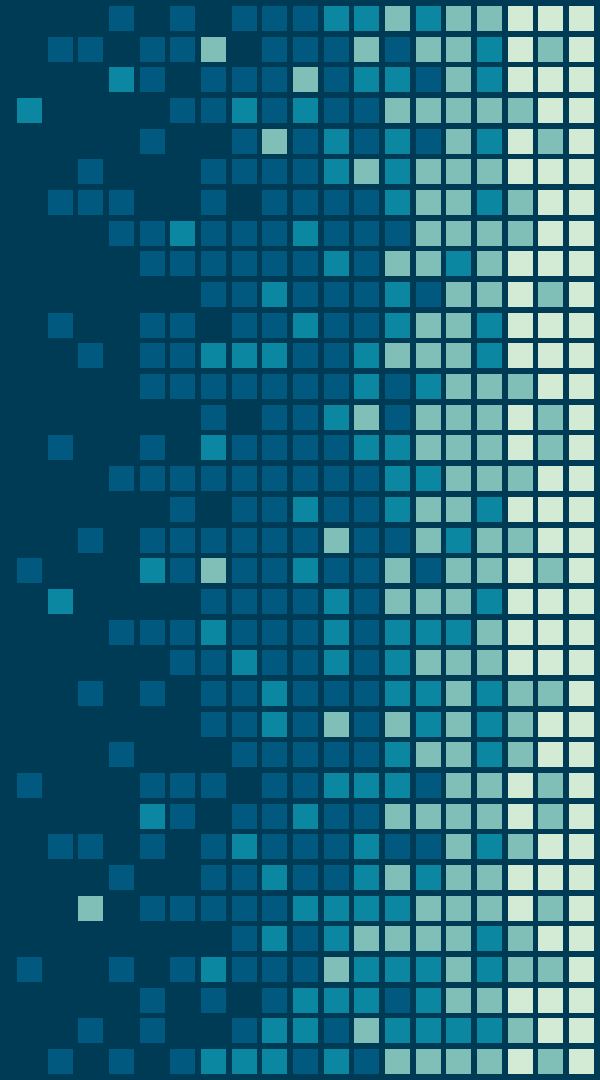
- High level Block Diagram
- Overview of Firmwater System
- Overall Goals
- Gantt Chart
- Challenges
- Learning Expectations



High-Level Block Diagram



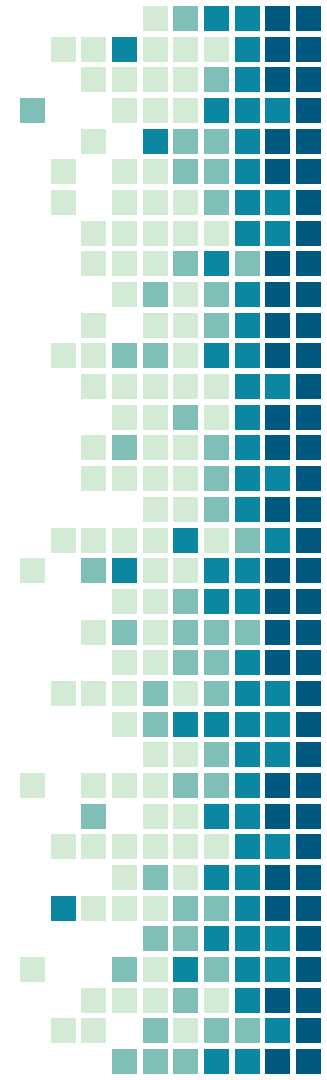
Overview of System





Firmware

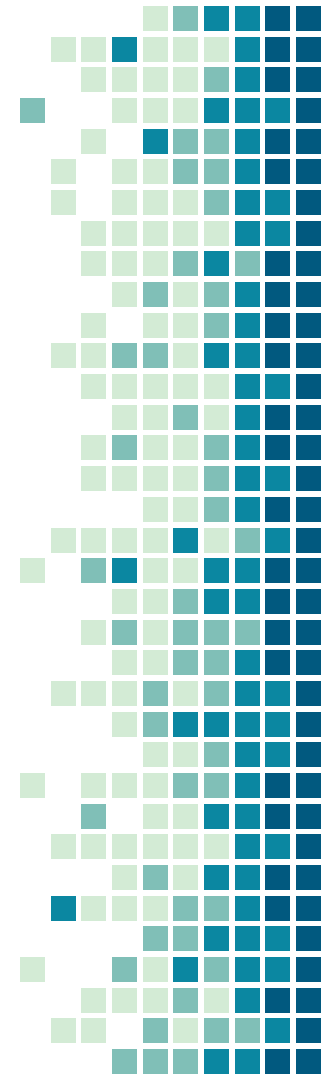
- Sample data through sensors in weatherbox
- Package and transmit data through Xbee to Gateway
- Report status of weatherbox



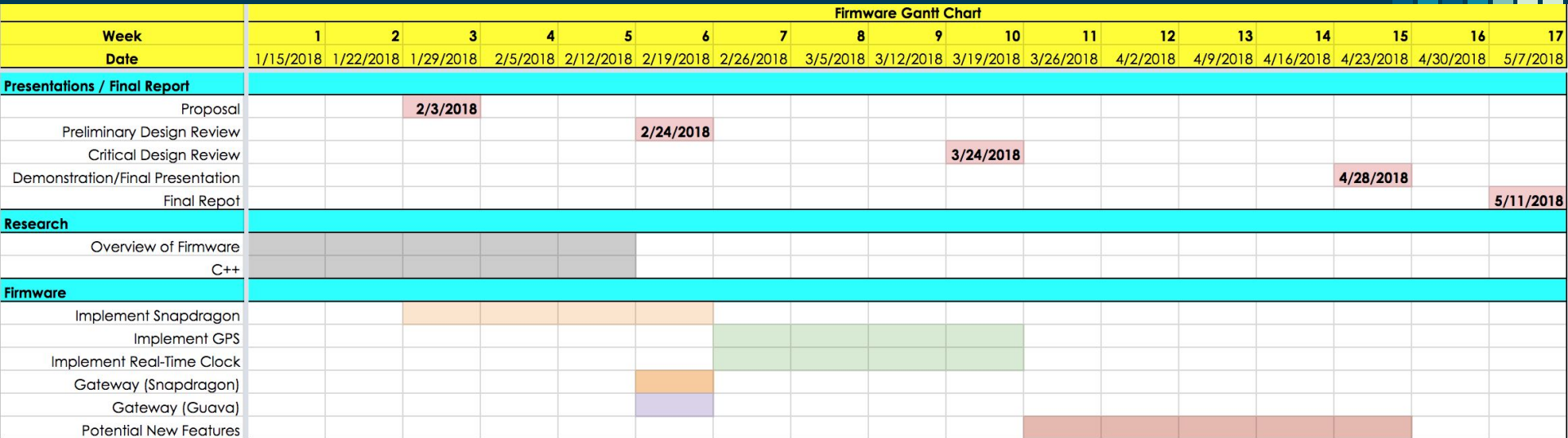


Overall Goals

- Implement Real-time Clock and GPS
- Implement Snapdragon
- Update Gateway



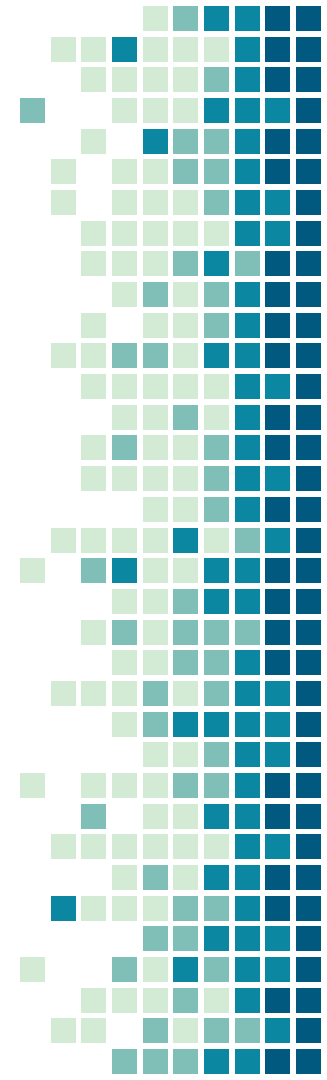
Gantt Chart





Challenges

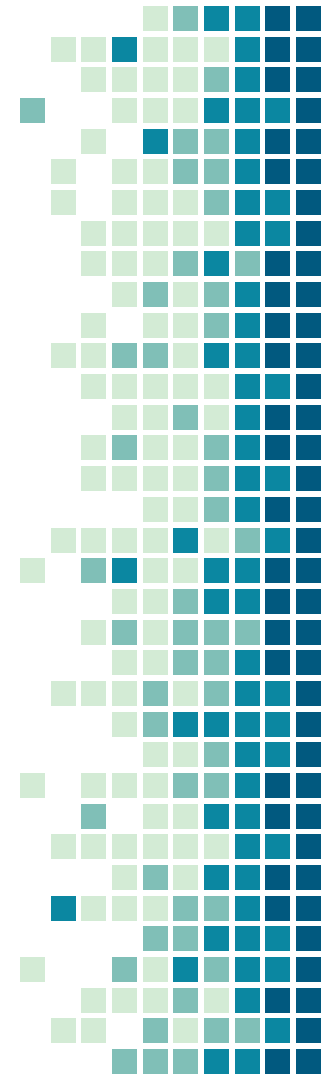
- Learning Curve
 - C++
 - Understanding current firmware
- Implementation
 - GPS & Real-Time Clock
 - Snapdragon
- Update Gateway





Learning Expectations

- Learn C/C++
- Teamwork and Collaboration
- Understand the system at a low level
- Utilizing Github in a team setting



Questions?

