

EE/CprE/SE 492 WEEKLY REPORT 7

Availability Prediction Based on Multi-Context Data

Week 7 Report

3/23/19-3/29/19

sdmay19-33

Client & Advisor: Goce Trajcevski

Team Members:

Justice Wright: Report Facilitator

Shane Impola: Scribe

Noah Chicchelly: Meetings and Communications Facilitator

Nick Schmidt: Software Systems Engineer

Tristan Anderson: Network Systems Engineer

Brendon McGehee: Hardware Systems Engineer

Weekly Summary

It finally happened. We have a working algorithm for statistical analysis of the sensor readings. We managed to test it with the pre-established dummy data and it met our expectations. Looking forward it shouldn't take too much work to implement and validate the algorithm on the backend as well, thus giving us the first semblance of a finished product. Meanwhile the hardware team worked hard towards integration testing. The goal for the upcoming week is to have the backend algorithm ready for the retesting of system integration.

Past Week Accomplishments

PCB Integration- Brendon and Justice

- Finished PCB testing
- Began system integration testing
- Made some small modifications towards improving areas requiring retesting

Backend - Noah

- Began implementing algorithm as backend process

Communication & Server - Shane and Tristan

- Finished first algorithm version
- Tested with stationary local data
- Discussed/worked with Noah to outline implementation

Front End/Algorithm - Nick

- Added pre-discussed Google API reliant features

- Helped test the first version of the algorithm

Hours Report

<i>Team Member</i>	<i>Weekly Hours</i>	<i>Total Hours</i>
Justice Wright	4	30
Shane Impola	5	29
Noah Chicchelly	4	28
Nick Schmidt	5	30
Tristan Anderson	4	31
Brendon McGehee	3	33

Upcoming Week

Brendon and Justice

- Finish integration testing
- Help finalize algorithm adjustments
- Work towards retesting integration with algorithm in place

Noah and Shane

- Place and test the algorithm in the backend
- Validate the automation works

Tristan and Nick

- Work with rest of team to validate algorithm from front end
- Stress test application