

## *EE/CprE/SE 492 WEEKLY REPORT 3*

### *Availability Prediction Based on Multi-Context Data*

#### *Week 3 Report*

2/17/19-2/22/19

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*

The third week of development marked one major milestone. Our first PCB design is finished and sent out for creation. It won't be long before we have a polished board in our hands. Looking forward we need to design an enclosure to hold the boards, so that the unit can be fully assembled upon arrival. Past that the backend continues to make strides and the algorithm development continues to progress slowly but surely.

#### *Past Week Accomplishments*

Backend - Noah

- Continued work on integration of all parts, specifically the server
- Started brainstorming algorithm strategies

PCB design - Brendon and Justice

- Completed PCB design for table and seat board
- Completed bill of materials to have order approved
- Sent out order

Communication & Server - Shane

- Continued working on the server endpoint functionality
- Started thinking about algorithm implementation

Communication - Tristan

- Finished writing library
- Began testing on server → revised pi communication

## Algorithm Development - Nick

- Started development on algorithm prototype.

## *Hours Report*

<i>Team Member</i>	<i>Weekly Hours</i>	<i>Total Hours</i>
Justice Wright	5	14
Shane Impola	3	14
Noah Chicchelly	4	15
Nick Schmidt	5	13
Tristan Anderson	5	14
Brendon McGehee	5	15

## *Upcoming Week*

### **Brendon**

- Start enclosure modification measurements
- Start enclosure modification layout in AutoCAD
- Double check bill of materials for accuracy

### **Justice**

- Get dummy data integrated to testing
- Start enclosure planning

### **Noah**

- Finish integration of backend
- Continue algorithm work

### **Shane**

- Finish server endpoints, improve functionality, efficiency, add features

### **Tristan**

- Begin assisting with algorithm development
- Help bridge backend and frontend issues

### **Nick**

- Work to get dummy data integrated to testing environment

- Work towards live data replication with same environment