

# EE/CprE/SE/CybE 491 Period Report

## 11/16/2019 - 12/06/2019

**Group number:** sdmay20-53

**Project title:** Smart Backpack Sprayer for Small-scale Agriculture Applications

**Client & Advisor:** Tim Andersen, Taylor Greiner, and Daji Qiao

**Team Members/Role:** Madison Kriege, Sean Doran, Kevin Davis, David Hayes, Shuangquan Li, Donald Laracuenta

### Period Summary

This period was used for the composition of the design document and further exploration with the BlueTooth chip. Because this is a large portion of the project, we decided to dedicate an entire period to creating it. Throughout this, the feedback from the TA was added into the document, new diagrams were created to better explain the processes being used, and the remaining sections of the design doc were written out.

### Past Period Accomplishments

This period, the design documentation and project presentation was completed. All parts of the design document were written and verified, as the document's due date falls shortly after this period. The project presentation also required work, as it will be presented during Dead Week. For hardware, data packaging was worked on. It is currently in a format that is ready to be sent over Bluetooth to the mobile application.

### Individual Contributions

Name	Individual Contributions	Hours this period	Hours cumulative
Madison Kriege	Finished the executive summaries and reformatting for the Design Document; Worked on Project Presentation	15	91
Sean Doran	Worked on Project Documentation and Project Presentation.	16	93
David Hayes	Worked on the bluetooth. Still a work in progress and needs more work. Worked on integrating all the pieces together and forming data	17	93

	Also worked on the project presentation and documentation.		
Kevin Davis	I worked on Project Documentation and Project Presentation during this period. Started to plan more for PCB design/thought about PCB decision.	16	93
Shuangquan Li	Worked on Project Documentation and Project Presentation and worked on the app's table view improvement.	15	93
Donald Laracuate	Worked on the final version of the Project Design Documentation and on the Project Presentation slides for the final presentation of the semester.	15	93

## Plans for Upcoming Period

To finish out the semester, our team will be working together to finalize the slides needed for the panel presentation. We will be meeting with our clients after the presentation to determine what next steps should be taken between now and the beginning of the Spring semester.