**Senior Design 491 Weekly Report 3**

**Week 3 (9/13/15 – 9/20/15)**

**May1624 -- Programmable Wireless Sensor Package for CprE Education**

**Advisor/Client:** Dr. Thomas Daniels

---

## Team Members -- Roles:

Yidong Liu – Team Leader

Xinian Bo – Team Webmaster

Niklas Jorve – Team Communication Leader

Branden Sammons – Key Concept Holder

Jonathan Krueger – Key Concept Holder

---

## Weekly Summary:

During this week, we met with our advisor to work on finalizing the requirements, timeline, and budget for the project. We decided with our advisor that we would have a soft budget of around $200 per unit (with additional funds being available for a more robust product) and that we should have a design with a strategy finished at the end of the first semester. Due to the open nature of the project, the majority of the first semester will be researching various robots and sensor packages. We continued our research on our own, and had a group meeting to discuss potential solutions that we found online.

## Weekly Accomplishments:

1. Made significant progress with finalizing preliminary requirements
2. Gathered a list of potential solutions to discuss with advisor
3. Started working on components of project plan

## Advisor Meeting (9/14/15):

**Duration:** 1 Hour

**Members Attending:** Niklas Jorve, Yidong Liu, Jonathan Krueger, Branden Sammons, Xianian Bo

**Notes:** Jonathan Krueger has been established as meeting leader, and Branden Sammons has been established as meeting secretary. We discussed the requirements for the final device with our

advisor/client to iron out a more specific plan. Our advisor has suggested two potential routes that we can go down for the project; we can either find a robot to program and use or use a sensor package. Ideas that have been suggested so far include the sphero robot, making the arduino esplora currently used in lab to be wireless, and a raspberry pi.

## Group Meeting (9/18/15):

**Duration:** 30 Minutes

**Members Attending:** Niklas Jorve, Yidong Liu, Jonathan Krueger, Branden Sammons, Xianian Bo

**Notes:** During this group meeting, we discussed the robots and sensor packages that we found online that could satisfy the project requirements. The list was compiled and will be suggested during the next advisor meeting.

## Plans for Next Week:

1. Decide between the robot path or the wireless sensor package path
2. Present list of solutions to advisor
3. Start project plan

## Individual Contributions:

| |
|---|
| Niklas Jorve:     Attended both meetings, researched ideas, compiled weekly report |
| Yidong Liu:      attended regular team meeting |
| Branden Sammons:  Attended meetings and researched possible options |
| Jonathan Krueger:  Attended meetings and researched possible options |
| Xinian Bo: Worked on the website database and attended meeting. |

## Project Contributions:

| Member | Project Time this week (hours) | Total Project Time (hours) |
|---|---|---|
| Niklas Jorve | 3 | 6 |
| Yidong Liu | 1 | 4 |
| Branden Sammons | 2 | 3 |
| Jonathan Krueger | 2 | 4 |
| Xinian Bo | 1 | 2 |