*EE 491 WEEKLY REPORT 16* *Date: 2/13/17-2/19/17*

**Group Number:** May1725

**Project Title:** Wireless Energy Measurement System

**Advisor:** Nathan Neihart

**Team Members/Role:**

1) Joseph Freeland (Co-Lead)
2) Milan Patel (Co-Lead)
3) Adam Cha (Communications Lead)
4) Adam Dau (Webmaster)
5) James Tran (Key Concept Holder)
6) Wei LinLin (Key Concept Holder)

- **Weekly Summary**

We finalized our dimensions for our 3D printed case. We just need to submit our 3D printed form and wait for our PCB design to come back in.

- **Past week accomplishments (please describe as what was done, by whom, when)**

    - Adam Cha - Worked on getting negative line for ADC as well as added threads for screws for 3D printing. Also talked with the people in 3D printing about more questions we had. Got final dimensions ready to go.
    - Adam Dau -
    - Joseph Freeland -
    - Wei LinLin - Figuring out some details of web application
    - Milan Patel - Finalized PCB and Enclosure Specifications
    - James Tran - Received and organized components for soldering preparation. Finalized pcb design with Mr. Harker and sent it to 4pcb.com (expect to arrive within 10 days)

- **Pending issues (if applicable)**
    - Adam Cha - Need to submit 3D printing application
    - Adam Dau - None

- Joseph Freeland - None
- Wei LinLin - None
- Milan Patel - None
- James Tran - Research about CC3200 mini and micro board

- **Individual contributions**

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**!!! ONLY EDIT BLUE COLUMN !!!**

| NAME | Individual Contributions | Hours this week | Hours cumulative |
|---|---|---|---|
| Adam Cha | Worked on getting negative line for ADC as well as added threads for screws for 3D printing. Also talked with the people in 3D printing about more questions we had. Got final dimensions ready to go. | 7 | 70 |
| Adam Dau | Worked on getting negative line for ADC. | 2 | 36 |
| Joseph F. | Added code to increase sampling rate for our ADC. | 2 | 46 |
| Wei LinLin | Figuring out some details of web application | 2 | 26 |
| Milan Patel | Finalized Hardware Specs for Prototype Rev. 2 | 6 | 65 |
| James Tran | Received and organized components for soldering preparation. Finalized pcb design with Mr. Harker and sent it to 4pcb.com (expect to arrive within 10 days) | 8 | 93 |

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- **Comments and extended discussion**

None at this time.

- **Plan for coming week (please describe as what, who, when)**

**Adam Cha**

| Task | Date | Expected outcome |
|---|---|---|
| Need to fill out 3D printing application. | 2/23/17 | Have 3D printed design ready to be completed |
| | | |

**Adam Dau**

| Task | Date | Expected outcome |
|---|---|---|
| Help Cha fill out 3D printing application | 2/23/17 | Be able to submit request for 3D printer |
| | | |

**Joseph Freeland**

| Task | Date | Expected outcome |
|---|---|---|
| Update website with sinusoidal waveforms | 2/25/16 | Have a smoother graph |
| | | |

**Wei LinLin**

| Task | Date | Expected outcome |
|---|---|---|
| Helping the software team to finish tasks | 2/23/17 | Improvement on the work |
| | | |

**Milan Patel**

| Task | Date | Expected outcome |
|---|---|---|
| Order PCB | 2/21/17 | PCB |
| | | |

**James Tran**

| Task | Date | Expected outcome |
|---|---|---|
| Soldering Preparation | 02/25/2017 | Parts should be ready when PCB board arrived |
| Setup testbench for testing the PCB | 02/25/2017 | Reserve a room for soldering in about two days |

- **Summary of weekly advisor meeting**

**Important Notes:**

- Make described changes to the board and case.

**Tasks (Due 1-2 Weeks):**

1. Need headers to be on PCB for connecting to microcontroller.
2. Need to figure out how the two will fasten with one another.
3. Request case to be made within next week.

**Things To Keep In Mind:**

- Get amplifier working first and integrating with microcontroller first before we start to fasten the two.
- Use a fuse, cord, cut off switch, and use ⅛ in. thick for the case.
- Make sure to use 3-pin outlet.
- Make sure to keep track of digikey part numbers.
- Possibly make the poles bigger too.
- Change the dimensions of board poles to accommodate the PCB board.