

Senior Design 492 Weekly Report 22

Week 18 (3/1/16 – 3/7/16)

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, Secretary

Jonathan Krueger – Key Concept Holder, Manager

Weekly Summary:

This week we worked to finalize the data pin connections and finish the ModelSim model. We are working towards our goal of finishing the PCB design and sending it to production before the week of spring break so that we can have a production board after break is over.

Weekly Accomplishments:

1. Finalized data connections
2. Finished ModelSim diagram

Advisor Meeting (3/2/16):

Duration: 2 Hours

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

Notes: During our advisor meeting we talked about the data connections that were still problematic. We also talked about the final steps of finishing the board before sending it off to production. Finally we talked about the design of the case and the possible options that we have.

Group Lab Meeting (3/3/16) 6pm:

Duration: 3 Hours

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

Notes: During the group lab meeting we worked on documenting all of the data pin connections and putting them on the ModelSim model.

Plans for Next Week:

1. Review ModelSim design
2. Send PCB to production

Individual Contributions:

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|------------------|---|
| Niklas Jorve | Worked on weekly report, worked on case design, worked on data pin connections |
| Yidong Liu | PCB design, meetings |
| Branden Sammons | <p>This week:</p> <ul style="list-style-type: none">● Worked on SPI with new MPU 9 degrees of freedom chip.● Did pin planning with the team.● Completed minor modifications on breadboards. <p>Goals for next Week:</p> <ul style="list-style-type: none">● Work on Software and begin minor testing.● Rework Documentation to reflect recent changes. |
| Jonathan Krueger | <p>This week:</p> <p>Goals for next week:</p> <ul style="list-style-type: none">● Work on documentation● Work on software, begin writing test |
| Xinian Bo | Attended meetings, worked on PCB design |

Project Contributions:

| Member | Project Time this week (hours) | Total Project Time (hours) |
|--------------|--------------------------------|----------------------------|
| Niklas Jorve | 8 | 126 |
| Yidong Liu | 12 | 122 |

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|------------------|------|-------|
| Branden Sammons | 8 | 111.5 |
| Jonathan Krueger | 11.5 | 155 |
| Xinian Bo | 9 | 107 |