**WNR (Wireless Neural Recorder)**

Rice University

Weekly Progress Report 22

3/11/2016 - 3/17/2016

**Agenda for meetings**

Mentor Meeting:

1. PCB Issues
2. Issues with Merging Subsystems

**Activities this week**

1. Most of PCB design is finished
2. Merging Subsystems

**Problems encountered**

1. Spacing is very tight on PCB
2. Difficulty in combining compression and spi reading with event handler

**Time devoted to project this week**

|  |  |  |
| --- | --- | --- |
| **Name** | **Tasks Accomplished** | **Hours Spent** |
| Stephen Xia | * Merging Subsystems | 15 |
| Tingkai Liu | * Intan PCB Design | 15 |
| Xin Huang | * Nordic PCB Design | 15 |
| Yuan Gao | * Merging Subsystems | 10 |
|  | **Team Total** | 55 |

**Meetings Minutes**

Weekly Meeting – 3/17/2016, 12:00PM - 1:00 PM

Attendees: Stephen Xia, Tingkai Liu, Xin Huang, Yuan Gao, Gary Woods

Location: OEDK 104

Completed objectives:

1. Battery:
   1. P13: doesn’t work:
      1. Less than 3.0 V
   2. Alternatives:
      1. Larger pr44 that has enough voltage is too big (the battery holder) to fit on board with the jumpers
      2. Could make custom battery holder
      3. Or smush parts together
2. Nordics out of stock
   1. Order older revisions
3. Revisions and finalize PCB:
   1. Reduce spacing between pins
4. Nordic: merging subsystems
   1. Trying to get event handler to do compression and read at the same time; may take a while
   2. Eventually will need to add ble

**Expenditures**

* N/A

**Action items list**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action item** | **Owner** | **Due date** | **Status** |
| Nordic PCB Design | Xin Huang | 4/14/2016 | 60% |
| Intan PCB Design | Tingkai Liu | 4/14/2016 | 60% |
| Combine compression, spi, and transmission | Stephen | 4/14/2016 | 20% |
| Server/Receiver | Yuan Gao | 4/14/2016 | 10% |

**Additional Comments/Questions for Mentors**