**WNR (Wireless Neural Recorder)**

Rice University

Weekly Progress Report 25

4/1/2016 - 4/7/2016

**Agenda for meetings**

Mentor Meeting:

1. PCB Updates
2. Merging subsystems/software updates

**Activities this week**

1. PCBs assembled, currently testing and debugging
2. Full system designed (transmission + compression + ble) and currently working on multi-link version

**Problems encountered**

1. PCBs: components are tested to be working, but the overall Nordic pcb does not work, though Intan PCB works

**Time devoted to project this week**

|  |  |  |
| --- | --- | --- |
| **Name** | **Tasks Accomplished** | **Hours Spent** |
| Stephen Xia | * Merging Subsystems | 40 |
| Tingkai Liu | * Merging Subsystems * PCB Assembly and Testing | 40 |
| Xin Huang | * PCB Assembly and Testing | 40 |
| Yuan Gao | * Server/Receiver | 40 |
|  | **Team Total** | 160 |

**Meetings Minutes**

Weekly Meeting – 4/7/2016, 12:00PM - 1:00 PM

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

Location: OEDK 104

Completed objectives:

1. PCB Assembly and Testing:
   1. PCBs assembled, but do not work
      1. Individual chips on the boards are confirmed to work by scoping them out
   2. We believe it is due to antenna because the documentation was very unclear as to how you are supposed to create the supporting pi-network for the antenna
      1. Will try to scope out the signal from the antenna to see if this is the issue.
2. Merging Subsystems:
   1. Compression + spi + transmission merged, working on multi-link example
3. Server/Receiver:
   1. Working on reading data from nordic receiver passing data serially to computer
4. The future
   1. Possibilities for applying for an IP
   2. Things to do for the next senior design team
   3. Walked over to the med center to grab a second electrode

**Expenditures**

* N/A

**Action items list**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action item** | **Owner** | **Due date** | **Status** |
| Combine compression, spi, and transmission | Stephen | 4/14/2016 | 80% |
| Server/Receiver | Yuan Gao | 4/14/2016 | 30% |
| PCB Assembly and Testing | Tingkai Liu | 4/14/2016 | 30% |

**Additional Comments/Questions for Mentors**