**WNR (Wireless Neural Recorder)**

Rice University

Weekly Progress Report 23

3/18/2016 - 3/24/2016

**Agenda for meetings**

Mentor Meeting:

1. PCB Updates
2. Merging subsystems/software updates

**Activities this week**

1. PCBs sent out; hopefully they work

**Problems encountered**

1. Creating Nordic PCB is very uncertain because they do not tell you what additional components you need for antenna; hope what we have works
2. Bottleneck for software seems to be the fact that we are running off of 32 kHz clock, we need to find a way to clock off of 32 MHz

**Time devoted to project this week**

|  |  |  |
| --- | --- | --- |
| **Name** | **Tasks Accomplished** | **Hours Spent** |
| Stephen Xia | * Merging Subsystems | 20 |
| Tingkai Liu | * Intan PCB Design | 20 |
| Xin Huang | * Nordic PCB Design | 20 |
| Yuan Gao | * Merging Subsystems | 15 |
|  | **Team Total** | 75 |

**Meetings Minutes**

Weekly Meeting – 3/24/2016, 12:00PM - 1:00 PM

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

Location: OEDK 104

Completed objectives:

1. PCB Design:
   1. PCB designs finalized and sent
   2. Components all have arrived; just need to wait for the PCBs to come back to configure.
   3. The Omnetics part that allows us to interface with Intan, Kemere has it
2. Merging Subsystems:
   1. Bottleneck for software seems to be the fact that we are running off of 32 kHz clock, we need to find a way to clock off of 32 MHz
   2. Still combining compression and spi reading

**Expenditures**

* N/A

**Action items list**

|  |  |  |  |
| --- | --- | --- | --- |
| **Action item** | **Owner** | **Due date** | **Status** |
| Nordic PCB Design | Xin Huang | 4/14/2016 | 100% |
| Intan PCB Design | Tingkai Liu | 4/14/2016 | 100% |
| Combine compression, spi, and transmission | Stephen | 4/14/2016 | 40% |
| Server/Receiver | Yuan Gao | 4/14/2016 | 10% |
| PCB Assembly and Testing | Tingkai Liu | 4/14/2016 | 0% |

**Additional Comments/Questions for Mentors**