**WEEKLY REPORT**

**Group # and Name:** May1615 Portable ECG Atrial Fibrillation Detection

**Client/Advisor:** Mani Mina, Rakshak Sarda, Benjamin Sjulson

**Attendees/Role:**

Ian Abbott

Nic Dubois

Aaron Melcer

Donathan Morgan (Leader, Communicator, and Connector)

Keegan Mumma

Seth Rickard

**Past week accomplishments (please describe as what, who, when)**

* The Electrical Engineers group ordered components for the analog circuit and received some of the parts but are still awaiting some of parts for the microcontroller and the analog circuit.
* The Computer Engineers group researched how to program the microcontroller and have ordered the microcontroller.
* Worked to enhance the circuit design and to approve the theory with each other and design it on pspice.

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

* For the EE group to finish the prototype circuit. We are still waiting for the parts to arrive. We may also get into prototyping in the next week if possible.
* The CprE group plans to start programing the microcontroller as well as getting the microcontroller and equipment that will be needed to program it.

**Pending issues**

* EE group working to have complete prototype of the analog circuit.
* CE needs to program the microcontroller using the TI.
* We will need to determine more precise methods of measuring when we have the integrated ECG working properly.

**Individual contributions**

* + Nic Dubois, Aaron Melcer, and Donathan Morgan started a design for the analog circuit and have begun designing and testing using pspice to simulate it.
  + Donathan, Nic, and Aaron determined replacements for the instrumentation amps and Donathan and Aaron ordered them.
  + Aaron, Nic and Donathan are coordinating talks with the electronics shop to get our parts here.
  + Seth Rickard and Ian Abbott found the proper micro controller and are researching and working to programing it.
  + Keegan Mumma helps by researching.

**Individual hourly contribution**

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| --- | --- | --- |
| **NAME** | **Hours This Week** | **HOURS**  **Cumulative** |
| Ian Abbott | 3 | 14 |
| Nic Dubois | 3 | 15 |
| Aaron Melcer | 3 | 15 |
| Donathan Morgan | 3 | 14 |
| Keegan Mumma | 3 | 14 |
| Seth Rickard | 3 | 14 |

**Comments and extended discussion**