

Group Progress Report

Group: Jawad Hoballah, Jeremy Nezaria, Michelle Wei

Project: Anesthesia monitor

Date: 10/22/17

Goals for the past week (copied from last progress report)

1. Test the technology currently in the hospital.
2. Prototype circuitry for simple muscle stimulation and detection.
3. Prototype different configurations of electrodes using those available in the hospital.
4. Begin simple software design for detecting optimal electrode position

For each goal above, comment on your progress:

1. No progress yet. We will set up a time to meet with Dr. Grant to do this.
2. We have brainstormed several different methods for stimulation and detection using different circuitry components such as multiplexers and opto-isolators. We have been able to use an opto-isolator to switch an LED on/off, controlled by an Arduino Uno.
3. Before testing on skin, we have decided to make sure we have circuitry that is safe and working.
4. Simple Arduino code was used to test the circuitry we built.

Goals for this week:

1. Test the technology currently in the hospital.
2. Prototype circuitry for simple muscle stimulation and detection: be able to stimulate a muscle.
3. Begin simple software design for detecting optimal electrode position: switching between Arduino pins.

Are there any difficulties with which you need assistance?

No.

Other comments: