

# NEUROTOUCH MEETING MINUTES

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6 October 2016

Instructor Meeting

## **Attendance:**

*Team:*

1. Brendan Souvenir
2. Christina Gibbs
3. Brooke Deans
4. Matt Harlow
5. Mazen Aljawi

*Instructor:* Absent

*Client:* Mike Maughan

**Start Time:** 4:00 PM

**Location:** GJ 108

## PRE-MEETING PREP

1. Portfolio Binder
2. Logbooks

## CURRENT BUSINESS

1. Sensors
  - a. Proximity: Balluff representative
    - i. Photoelectric
    - ii. Laser
    - iii. Calibrate either for color? What is error with wrong color?
      1. Button for color of tissue type?
    - iv. Ultrasonic
      1. Amplification cone
  - b. Force Sensor: 2nd priority
    - i. Load cell-most durable option
2. Damage control
  - a. Cap for device
  - b. Dealing with force of a drop on load cells?
  - c. Protector to the end of device?
  - d. Sterilization: slip like for thermometers or disposable tip.
3. Design
  - a. Brooke and Matt show puzzle piece design.
  - b. 3D print. Talk to Lucas.
4. Potential Problem
  - a. Brain pulsations with heart rate
5. Levenberg-Marquardt Algorithm
  - a. Error analysis to find correct value.

### FUTURE BUSINESS

1. Meet with Lucas about 3D printing.
2. Brendan to get Spec sheet and cost analysis
3. Christina and Mazen work on protecting tip of device
- 4.

**Meeting Adjourned: 5:30 PM**