ECE 4970 – Real-Time Welding Feedback

WEEK 8

Dr. Liesl Klein Fall 2023

# Contact Information

## Team Names and Contact Information

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## Meeting Information

CEER 105 (MDL)

T R 1:00pm – 2:15pm

# Weekly Deliverables

* + - Complete the op-amp circuit by obtaining the correct resistors (Sean).
    - Read the current sensor data more accurately with the Arduino (Sean and Timmy).
    - Finish 3D printing necessary brackets to attach sensors to the welding machine (Rafael).
    - Finish IOS app development to display data obtained (Alex).

# Achieved Goals

* + - Complete the op-amp circuit by obtaining the correct resistors (Sean).
      * Op-amp circuit was completed, and we were able to amplify the output of the current sensor to be read by the Arduino.
    - Read the current sensor data more accurately with the Arduino (Sean and Timmy).
      * Timmy was able to modify the code so we can now read to the thousands place of a volt. Sean and Timmy were able to integrate the current sensor and the Arduino.
    - Finish 3D printing necessary brackets to attach sensors to the welding machine (Rafael).
      * All our brackets were 3D printed at this point in time.
    - Power to current sensor (Sean and Alex)
      * We received our power supplies and were able to successfully power the current sensor. Initially, we had power transmission issues we diagnosed the problem as a bad crimp connection. We were able to overcome the issue by crimping on a new connector and successfully delivered 15 volts.
    - New project view work progressing
      * This will be the view that the welder sees as they are welding.
      * Got the first drop down menu working need to figure out the selections that we would like (Alex)
    - We received all of the parts that were ordered!
* **Non- Achieved Goals**
  + Bluetooth Code still not running properly.
    - I have the skeleton code saved in the app
    - Have to go through it more to get a better understanding and modify for our application (Alex)

# Next Weeks Deliverables

* + - Bench testing of gyroscope (Rafael)
    - Successfully transmit data packet to the app (Alex and Sean)
    - Create code to interpret data from gyroscope (Timmy)

# Advisor Approval

Remember to have your advisor review, approve, and grade this report during your meeting!

Approved:

Your Name The Date