ECE 4970 – Real-Time Welding Feedback

WEEK 3

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

* Start skeleton code for Arduino for sensors
* Finish the storyboard for the app
* Obtain a welding machine from Joe
* Meet with Dr. Kulkarni to discuss goals for the project
* Continue IOS app development

# Achieved Goals

* We found libraries for the sensors that we ordered
  + - Pulled the examples and have the code ready to test
* We almost completed the story-board for the app
  + - Caught up to the current menus that we are working on
* We discussed with Dr. Kulkarni and Joe about project components
  + - Extensive research was done on the current sensor trying to match our requirements. We formally decided all the sensors we need
* Extensive research on the current sensor
  + - Went into CEER009 to determine the serial number on the existing welding machine to order a “replacement” sensor. Found a sensor that will meet our applications.
* Discussed a need for an ultrasonic sensor
  + - New requirements were added in last minute and we had to adjust our design
* Decided to have dual development machines to work on different aspects of the project
  + - Allows us to utilize our time better and meet deadlines
* Re-submitted the order form
  + - Determined everything we need officially

1. **Non- Achieved Goals**

* We did not obtain a welding machine from Joe
  + - We are using the welding machine in CEER009 so one does not need to be provided by Joe
* We did not start the skeleton code, rather we found libraries for it
  + - Changed our development of the code due to adding in more and different sensors
* We did not finish story-board
  + - Had to determine our sensors so lost time here and confirming our parts took up most of our time

# Next Weeks Deliverables

* Find an open-source welding library to compare real-time data to
* Find a way to bench-test the current sensor with high amperage
* Continue IOS app development
  + Get new project menu done
* Start sensor mounting development (blueprints for sensors)

# Advisor Approval

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

Approved:

Your Name The Date