ECE 4970 – Real-Time Welding Feedback

WEEK 3

Dr. Liesl Klein Fall 2023

# Contact Information

## Team Names and Contact Information

Sean Meals

484-222-9144

smeals@villanova.edu

Timothy Hoo

650-815-8331

thoo01@villanova.edu

Alex Rhodes

724-674-4234

arhode03@villanova.edu

Rafael Guerrero

323-387-4280

rguerrer@villanova.edu

## Adviser Information

Sarvesh Kulkarni

610-519-6533

sarvesh.kulkarni@villanova.edu

Joe Zebrowski

272-209-612

jaz@zintegrium.com

## Meeting Information

CEER 105 (MDL)

T R 1:00pm – 2:15pm

# Weekly 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)

# Achieved Goals

* We have found an area to do bench testing
  + - We have ideas on power supplies that could push high amps, have other power supplies ready
* We have started sensor schematics for our system
  + - We did this using an online tool that let us input sensors to get pin outs ready

1. **Non- Achieved Goals**

* We did not find open source welding libraries yet
  + - Everyone we have found is proprietary and we cannot use
* We did not continue IOS app development
  + - Other things came up with the project and this got pushed back

# Next Weeks Deliverables

* Create an Arduino case in solidworks
* Creating mounts for the rest of the sensors
* Get sensors powered on with first readings
* IOS app project view development

# Advisor Approval

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

Approved:

Your Name The Date