

Meet with Project Mentors & Supervisor at 2:30pm

Introductions

- Supervisor: Dr. Johnson
- Mentors: Hussain, Joe Stanley would be interested in helping.
- Team Members:
 - Dakota Pfaff
 - Brian Guiana
 - Yikai Lu
 - Jailong Dai

Project Overview

- General Information
 - Project can be adjusted to fit the interests of project members.
 - General purpose of project is to create several educational programs to teach students about industrial control system protocols. Although we have a great amount of flexibility of project, we were given several ideas for the project:
 - Develop a laboratory experiment to set up a control system protocol.
 - Provide an operating control system with several bugs, and have students locate and fix the bugs within the system.
 - Create a substation automation program and have students perform tests.
 - There are various different protocols we can look into. Here are some good places and applications to start.
 - DNP3
 - Modbus
 - Ethernet IP
 - Transmission system automation protocol (DNP3?)
 - Distribution system automation protocol (IVVC?)
 - Research SCADA
 - Research Control Systems
 - Many more options depending on personal interests.
 - To accomplish project, Joe Stanley has offered us his help.
 - Joe has offered us a couple motor protection relays.
 - Joe has offered us help in setting up and updating existing equipment.
 - Joe suggests that we work hard initially to save time at the end of project.
 - We have several other opportunities for information:
 - Reach out to SEL through Joe
 - Reach out to POWER Engineers, Chris Dyer or other contacts through Dakota
 - Idaho Power may offer help, reach out through Dakota
 - Western Protective Relay Conference may help, go through PES
 - We may need to be set up with some forms of software:
 - SELQuickset

- RTAC
- Deliverables
 - Fall 2019
 - Will need to prepare for snapshot days and follow the general class schedule.
 - Spring 2020
 - Ultimate goal is to create platforms for learning system controls protocol.
 - We will choose the route we want to take with our project, and
- Project Milestones
 - Same milestones and deadlines for as class this semester. We will decide upon our own goals and deadlines ourselves.
- Group Expectations
 - Best forms of Communication
 - Quality of Work
 - Success Definition
- Team Budget
 - We have a budget, however, it will be better for us to do as much as we can with what we have.

Preparation for Next Meeting:

- Materials needed:
 - Key to the lab.
 - Google 444 class
- Next meeting time and Date:
 - Same place, same time.

Separate Mentors and Supervisor by 3:10pm at the absolute latest

Review Team Contract

- Review each Section
- Sign to turn in to class at 3:30
 - Done!

End Meeting by 3:20pm
