



CLIENT INTERVIEW

| SEL-CYBERSECURITY TESTBED GROUP #14

PROJECT REQUIREMENTS

WHAT ARE THE EXPECTATIONS REGARDING THE DELIVERABLES OF THE PROJECT? FOR EXAMPLE, THE DISPLAY MONITOR?

Brian Johnson: The display view should display critical infrastructure cybersecurity concerns and critical power system information such that the system operators can view this data without getting overwhelmed by the amount of data

WHAT DO YOU CONSIDER THE ROLES OF THE ECE STUDENTS TO BE?

Brian Johnson: The ECE students will be using RSCad simulation software to create power test scenarios and run them on the RTDS with the SCADACS control equipment. The test scenarios will be whatever they decide to design.

WHAT DO YOU CONSIDER THE ROLES OF THE CS STUDENTS TO BE?

Brian Johnson: Ibukun oversees the computer science side of the project and will have more information but you will be designing and building the display dashboard from the information produced by the simulations.

WHAT ARE THE TYPES OF EQUIPMENT WE WILL BE USING FOR THIS PROJECT AND ARE THERE ANY RESOURCES SUCH AS MANUALS ABOUT THE EQUIPMENT?

Brian Johnson: The SCADA control system, Real Time Digital Simulator, the SEL power racks, a google calendar that handles scheduling of the simulators, and the simulation software which can be run from your computer. Then there is whatever software is needed for the dashboard display. Manuals about SCADA equipment and the SEL power racks can probably be found online. The simulation software has tutorials for it and SEL will be coming in for a workshop on how to use the equipment. For more information about the project, its background, and the equipment usage I have an additional article, Murdock Proposal, which I will send by email.

WHAT IS THE LEVEL OF CONFIDENTIALITY FOR THIS PROJECT BECAUSE THE SAPA FORM WAS REQUIRED?

Brian Johnson: Due to the nature of this research project and the fact it's an internal school project the SAPA form isn't really needed. We can discuss this project openly without confidentiality concerns.



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WHAT IS THE BACKGROUND OF THIS PROJECT AND THE ROLES OF THOSE ALREADY INVOLVED IN THIS PROJECT?

Brian Johnson: Your part of the project is a smaller portion of a much larger research project. Ibukun will mainly oversee the cs side of this project, his research is in integrating the Idaho Falls and Coeur d'Alene labs with these labs to test cyber-attacks on the network we are simulating, perform data analytics on those attacks to enhance research on making these systems more secure. I am overseeing more of the ECE side regarding the equipment operation as a mentor, but I am also your client. You can come to me with questions as well. Feng Li is your advisor, however, due to scheduling Beleed Hussain will carry out some of Feng Lis duties.

NOTE: We also discussed the integration of the local labs and toured them. During this time, we gained more detailed information about the equipment we would be using such as specs, and some of the background knowledge and expectations which would be required to operate the equipment, especially on the ECE side of things. Ibukun also talked with us later about software development options for the dashboard, including specific GIS and open source API software. We also discussed encryption standards for security.

PROJECT MANAGEMENT

FOR PROJECT SCHEDULING, WILL A GANTT CHART BE AN ACCEPTABLE TOOL OR WOULD YOU PREFER SOME OTHER SCHEUDLING SCHEME?

Brian Johnson: Gantt chart will be fine or anything similar that we are comfortable using. Everyone in the room was familiar in some degree about the structure of the chart.

CAN YOU DESCRIBE THE PROJECTS BUDGET AND OUR PORTION?

Brian Johnson: The project is being sponsored by two grants. The Murdock Trust grant and another internal ECE office grant. All the equipment needed for the project should already be provided. Possible expenses will include the poster display needed at expo and possibly any other costs which arise from things we need but don't have; however, our group really shouldn't need any sort of extra funds to do this project.

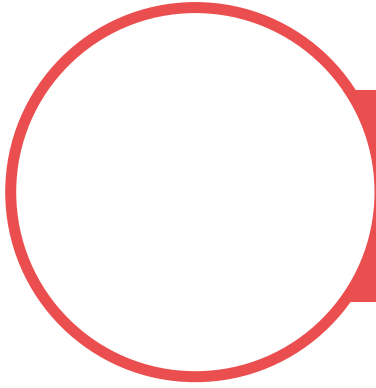


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HOW FREQUENTLY SHOULD WE HOLD MENTOR AND CLIENT MEETINGS?

Brian Johnson: Our expectation is that we will have a weekly meeting, however, due to my traveling schedule there will be some meetings, and some snap shot days I am unable to attend because I will be gone.



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