

Team 09

Project Title: Automatic Design of Distance Protection

Date: 10/17/21

Members:

- Individual 1 – Anthony Ruffalo
- Individual 2 - Chye Stecher
- Individual 3 - Josh Vrenick
- Individual 4 - Matthew Dobrzynski
- Individual 5 - Taylor Semple
- Individual 6 - Keegan Kraft

What we've accomplished in the past week/what we've been researching

- Individual 1 - Connected the python script to the plects model the client provided.
- Individual 2 - This week I was able to meet with our advisor to grasp a better understanding of the project requirements in chronological order. We also learned more about the neural network.
- Individual 3 - I had a few personal things come up, so I wasn't able to get much done this week. I have a few things set up to look into the RT box but that's about it.
- Individual 4 - Talked with the adviser about basics for the neural network we need to implement. Clarified goals our project should accomplish and how we can attain those goals.
- Individual 5 - Talked with the advisor about where to go now. Tried to start producing more data for the project and worked with PLECS more.
- Individual 6 - Read over some documentation previously provided by the professor

What we're planning to do in the coming week

- Individual 1 - Creating a script to modularly run many tests and output data.
- Individual 2 - We plan to start creating code that can run the data in PLECS without us having to run each individual test. Also to bring this into excel and later C.
- Individual 3 - Spending a lot of time studying up on the RT box and learning how to properly use it and catching up with the team on the meeting they had with the client last week that I missed.
- Individual 4 - Begin tinkering with python code to start training a neural network system.
- Individual 5 - Produce more data for the machine learning part of the project to start training a neural network to learn.
- Individual 6 - Gather more and more data through PLECS for the neural network.

Issues we had in the previous week

- Individual 1 – Bug testing the model and the script took longer than expected.
- Individual 2 - We needed to get a better understanding of the full idea of our project through steps. This was helpful as we feel more confident after our meeting.
- Individual 3 - We had some misunderstandings with our client that needed to be sorted out, and I had some personal issues that came up that I needed to deal with that took up a lot of my time.
- Individual 4 - Some misunderstandings about what our project should accomplish and how we could achieve our goals.
- Individual 5 - No main issues other than motivation to continue working.
- Individual 6 - I missed the make-up meeting with our advisor