

sdmay18-16: Implementing OpenPLCs into a Cyber Defense Competition

Week 8 Report

November 4 - November 10

Team Members

Matthew McGill — *Meeting Facilitator, Project Manager*

Brennen Ferguson — *Hardware Engineer*

Joseph Young — *Security Engineer*

Liam Briggs — *Hardware Engineer*

Joshua Przybyszewski — *Software Engineer*

Nicholas Springer — *Security Engineer*

Val Chapman — *Testing Engineer*

Summary of Progress this Report

As the end of the semester edges closer, the team has focused work on making a cohesive and explanatory demo more than a final product. This past week the team has advanced the working capabilities of our systems and have integrated them together.

Pending Issues

Currently there are small bugs that prevent the web app from accurately communicating with Factory IO and our PLC logic is not totally complete.

Plans for Upcoming Reporting Period

The team plans to fix the communication between the web app and Factory IO and develop tools and documentation for the team demo at the end of the semester.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Matthew McGill	Managed meetings, assigned presentation responsibilities and helped test the web app	6	36
Brennen Ferguson	Built ladder logic for demo	5	39
Joseph Young	Completed documentation of vulnerabilities for the linux server	6	36
Liam Briggs	Helped build the Factory IO environment and test ladder logic and the interaction between the web app and Factory IO	5	40
Joshua Przybyszewski	Finished up the web app design and started cosmetic changes	6	39
Nicholas Springer	Worked with Joe Young to write up	7	49

	vulnerabilities for the Linux server and started on the vulnerabilities of the web app		
Val Chapman	Began writing formal tests for the systems to be used in initial setups and noted inconsistencies between systems.	5	36