EE / CprE / SE 492 – sddec19-12

Campanile-Carillon Model Phase II

Jan 2019 – Dec 2019

Client: Dr. Tin-Shi Tam

Faculty Adviser: Dr. Gary Tuttle

Bi-Weekly Report 11

September 16 - September 27

Team Members

Ryan Roltgen – Software Engineering – Meeting Scribe

Sam Habel – Computer Engineering – Meeting Facilitator

Yicheng Hao – Electrical Engineering – Power Systems Lead

Gabe Stackhouse – Software Engineering – Software Lead

Kienan Otto – Computer Engineering – Report Manager

Grant Mullen – Computer Engineering – Integration Manager

Weekly Summary

This week, we analyzed what our deliverables and timeline will be for the remainder of the semester leading up to the demonstration at the homecoming parade. We have been making initial design choices for the hardware setup for the info station as we wait for hardware to arrive to begin full development.

Past Two Week Accomplishments

- Started work on PDF viewing for sheet music - Kienan
- Modified menu options - Kienan
- Optimized serial communication for light bar - Ryan

Pending Issues

- No timeline for carillon monitor/info station monitor delivery

Individual Contributions

Team Member	Contributions	Weekly Hours	Total Hours
Ryan	Fixed a small issue/bug that was causing the program to send multiple strings to the serial around the same time. We believe this was causing some of the issues we were having with the light bar.	6	71
Sam	Worked on recovering and designing the final light bar system	5	58
Yicheng	Researched on the auto-shutdown safety feature and better battery system arrangement.	4	60
Gabe	Coordinated plans with other groups and stakeholders on the project.	5	70
Kienan	Began work for including sheet music PDFs for users to read from. Changed structure of in-game menus to remove unnecessary user-facing options	5	57
Grant	Researched needed changes to do the rework for the arduino code. Reviewed other hw components needed.	5	51

Plans for the Upcoming Two Week

- Continue writing and testing arduino code for light bar - Sam
- Continue initial work on info-station software - Gabe, Ryan, Kienan
- Finalize PDF viewing solution - Kienan
- Finalize light bar and arduino system - Sam, Gabe, Ryan