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 14

October 28 - November 8

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

Following the demo of our design at the Bells of Iowa State concert, we've made some minor changes for usability purposes. We received a lot of feedback from users in the field and made some UI changes to better communicate the instructions for our game. We've also determined the final hardware choices and are preparing to install components into final places.

Past Two Week Accomplishments

- Installed libraries to convert PDF to image - Kienan
- Made final PC decision - Ryan, Sam
- Made final battery decision - Yicheng, Grant
- Researched mounting and component installations

Pending Issues

Individual Contributions

Team Member	Contributions	Weekly Hours	Total Hours
Ryan	Researched and decided on final miniature PC to power system	6	96
Sam	Researched PC and electronics components for final installation. Created list and delivered it to Dr. Tam with approval.	5	78
Yicheng	Researched battery options for the system.	6	78
Gabe	Researched PDF automatic conversion for new sheet music being added to station. Modified light bar to properly fit on structure	8	100
Kienan	Installed libraries to convert PDFs to high quality images, determined mounting system	6	80
Grant	Researched battery, and other needed electronics. Meet with Dr. Tam to get client feedback, before submitting for ordering.	7	79

Plans for the Upcoming Two Weeks

- Order all remaining components to complete project
- Automate the PDF conversion process
- Implement sheet music mode
- Apply finish to light bar and install permanently