Project Plan

Week 1

* Viewed Project Introduction and First Briefing
* Viewed Instructional Plan
* Signed up to a Group / Elevator
* Read Project Charter
* Completed Project Plan / Gantt Chart
* Reviewed Documentation and Set up Raspberry Pi Server
* Set up Remote Connection to Raspberry Pi AND IP Camera and provide evidence (tests/video) to confirm
* Reviewed documentation for a shared CAN protocol and able to explain how it will be used
* Begins design of Elevator GUI (controls/indicators)
* Completed Log Book Entry before Debrief

Week 2

* Confirm client/server communication via both HTTP / SSH
* Implement the CAN messaging protocol by properly setting the filters (code demo) on STM32.
* Implement Wiring on STM32, push buttons/LED indicators (possible COVID restrictions)
* Demonstrates (video) ability to read messages on the CAN Bus

Week 3

* Reviewed Rubric for Phase I Technical Debrief and ensured all items are completed by beginning of week 4
* Improve the appearance of user action buttons/icons
* Begin designing/building webpage that shows diagnostic reports (just the front end)
* Consider the operation of the elevator and the Finite State Machine Logic
* Consider the implementation of Sabbath Mode Operation of the Elevator

Week 4

* Improve the appearance of user action buttons/icons
* Begin designing/building webpage that shows diagnostic reports (just the front end)
* Consider the operation of the elevator and the Finite State Machine Logic
* Consider the implementation of Sabbath Mode Operation of the Elevator
* Research additional capability that demonstrates ingenuity (e.g. voice control of elevator)
* Consider how to implement the announcement of floors using the speaker

Week 5

* Users are authorized/authenticated based on username/password \*\*\*
* Improve the appearance of user action buttons/icons
* Begin designing/building webpage that shows diagnostic reports (just the front end)
* Consider the operation of the elevator and the Finite State Machine Logic
* Consider the implementation of Sabbath Mode Operation of the Elevator
* Research additional capability that demonstrates ingenuity (e.g. voice control of elevator)
* Consider how to implement the announcement of floors using the speaker

Week 6

* All User interface Front End Components Completed
* User action buttons/icons implemented
* Indicators/lights etc. implemented
* Begin connecting Front-End to Back-End / Database
* User action buttons developed to make changes to UI that are reflected in the database
* User indicator buttons change - changes in database are reflected in UI
* Begin Developing Database / Repository
* Database set up and accepting values/commands from website
* Database logs all information placed on the CAN bus
* Continue Diagnostic Report Generation
* Continue developing Front-End
* Connect Front-End to Back-End / Database
* Start generating diagnostic reports based on content in database
* Continue Developing User Authentication (using credentials stored in database)

Week 7

* Continue tasks identified in previous debrief
* Announce Floor Numbers
* Sabbath Mode

Week 8 Student Success Week