**EE/CME 495 Project Management Update**

Group Number: 5

Group Members: Jordan Smith, Thomas Hu, Jason Wong

Dates Covered: January 17, 2020 to February 6, 2020

Part 1: Analysis of Task Progress

Shown below is the work completed by the group during the time period of January 17, 2020 to February 6, 2020.

The task numbers in the tables of this document correlate to the task numbers shown in the Work Breakdown Structure table found in revision 2 of CD2 – EE495/CME495 Project Plan.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task** | **Initial Completion (%)** | **Planned Completion (%)** | **Actual Completion (%)** | **Planned Hours** | **Actual Hours** |
| 5.2 Perform Hardware Design | 75% | 100% | 100% | 5 | 3 |
| 5.2.1 Draft Design Schematics | 75% | 100% | 100% | 5 | 6 |
| 5.3 Research Code Design | 40% | 50% | 70% | 10 | 10 |
| 5.3.1 Design Source Code | 30% | 60% | 50% | 10 | 5 |
| 7.0.0 E-stop Circuit Build and Test | 50% | 100% | 50% | 5 | 2 |
| 7.0.1 Signal Firing Circuit Build and Test | 50% | 100% | 50% | 5 | 2 |
| 7.0.2 Encoder Return Circuit Build and Test | 50% | 100% | 50% | 5 | 3 |
| 7.0.3 Button Control Build and Test | 50% | 100% | 50% | 5 | 2 |
| 7.0.4 LED/Sound Indicator Circuit | 0% | 100% | 0% | 5 | 0 |

Shown in the table below is the planned and actual number of hours spent by each team member.

|  |  |  |  |
| --- | --- | --- | --- |
| **Group Member** | **Planned Hours** | **Actual Hours** | **Main Tasks** |
| Jordan Smith | 30 | 14 | 5.2, 5.2.1, 7.0, 7.0.1, 7.0.2, 7.0.3, 7.0.4 |
| Jason Wong | 20 | 15 | 5.3, 5.3.1 |
| Thomas Hu | 20 | 0 | 5.2, 5.2.1, 5.3, 5.3.1 |

Significant Deviations to the Project Plan are described below:

Jordan Smith has not been able to free up the time to finish the tasks as planned. A considerable amount of his focus was put on arranging getting the physical rotator delivered and set up in the Hardy Lab, as well as motor setup and parts receiving.

Jason Wong has begun coding the rotational functions for the project and will continue to research and test out the parameters for the recall position. As for the testing portion, it will begin once the assembly of the unit is close to completion.

Thomas Hu was occupied with extracurricular work and DSP and was unable to find the time to work on reporting

Part 2: Future Task Planning

Shown below is the work that is planned to be completed by the group during the time period of February 6, 2020 to February 27, 2020.

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Initial Completion (%)** | **Planned Completion (%)** | **Planned Hours** |
| 5.3 Research Code Design | 70% | 100% | 10 |
| 5.3.1 Design Source Code | 50% | 100% | 10 |
| 7.0 E-stop Circuit Build and Test | 50% | 100% | 3 |
| 7.0.1 Signal Firing Circuit Build and Test | 50% | 100% | 3 |
| 7.0.2 Encoder Return Circuit Build and Test | 50% | 100% | 3 |
| 7.0.3 Button Control Build and Test | 50% | 100% | 3 |
| 7.0.4 LED/Sound Indicator Circuit | 0% | 100% | 5 |
| 8.0 Final Presentation | 0% | 25% | 10 |
| 8.1 Final Report | 0% | 25% | 5 |

Shown in the table below is the planned number of hours to be spent by each team member.

|  |  |  |
| --- | --- | --- |
| **Group Member** | **Planned Hours** | **Main Tasks** |
| Jordan Smith | 17 | 7.0, 7.0.1, 7.0.2, 7.0.3, 7.0.4 |
| Jason Wong | 20 | 5.3, 5.3.1, 8.0 |
| Thomas Hu | 20 | 5.3, 5.3.1, 8.1 |