Table 1: Revision History

Date	Developer(s)	Change
Date1	Name(s)	Description of changes
Date2	Name(s)	Description of changes
...	...	...

Development Plan
Mechatronics Engineering

Team 25, Team Name
Ahmed Nazir, nazira1
Stephen Oh, ohs9
Muhanad Sada, sadam
Tioluwalayomi Babayeju, babayejt

[Put your introductory blurb here. —SS]

1 Team Meeting Plan

Our team plans on having in person meetings weekly on Mondays from 2:30-4:30PM. These meetings will be used to catch up on work done in the last week, next steps and any important updates. If in person meetings are not possible we will conduct them through Microsoft Teams. This weekly meeting is mandatory but we might also have other meetings throughout the week depending on what stage we are in for the project. All meetings will contain an agenda and each team lead will give updates on next steps

2 Team Communication Plan

Our team will be using a Microsoft Teams group as our main method of chat, and to delegate tasks we will be utilizing GitHubs project tracker

3 Team Member Roles

- Stephen Oh - Team Liason, Software/Hardware Team

- Ahmed Nazir - Software/Hardware Team, Inventor Expert

- Muhanad Sada - Software/Hardware Team, Git Expert

- Tioluwalayomi Babayeju - Software/Hardware Team

4 Workflow Plan

- How will you be using git, including branches, pull request, etc.?

- How will you be managing issues, including template issues, issue classificaiton, etc.?

5 Proof of Concept Demonstration Plan

What is the main risk, or risks, for the success of your project? What will you demonstrate during your proof of concept demonstration to convince yourself that you will be able to overcome this risk?

6 Technology

6.1 Programming Language

The programming language of choice is Python. Python is the perfect language for data analysis and data manipulation. Python contains many libraries specifically for data analysis.

6.1.1 Libraries

- Pandas: Data manipulation library

- Matplotlib: Math library to help visualize data in graphs

- PyQT: Python GUI library

6.2 Tools

To assist with developing our product we will be using the following tools

7 Coding Standard

8 Project Scheduling

[How will the project be scheduled? —SS]

Tool Name	Explanation
Autodesk Inventor	Inventor will be used for all the CAD design work to create our hardware
VSCode	Our team will be using VSCode as our primary code editor because of the vast extensions it has. VSCode also integrates nicely with git and GitHub
GitHub Desktop	GitHub desktop is an easy to use GUI which interacts with our github repo and makes editing code and files faster
Pylint	The linter extension we plan on using is Pylint, it will keep our coding style consistent between different people and it is specifically made for Python