1. Gantt Chart



2. Requirements Table

Requirement ID	Description	Status
R1	Robot must move in a rectangular pattern	Complete
R2	Flowchart must match the algorithm steps	Complete
R3	Block code must drive the Sphero Bolt	Complete
R4	Sensor data must be collected and analyzed	Complete

3. Requirments Signoff Table

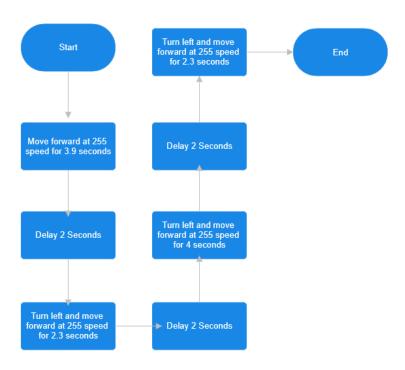
Requirement ID	Signoff By	Date
R1	Isaac and Bilal	11/1/24
R2	Isaac and Bilal	11/1/24
R3	Isaac and Bilal	11/1/24
R4	Isaac and Bilal	11/1/24

4. Algorithm

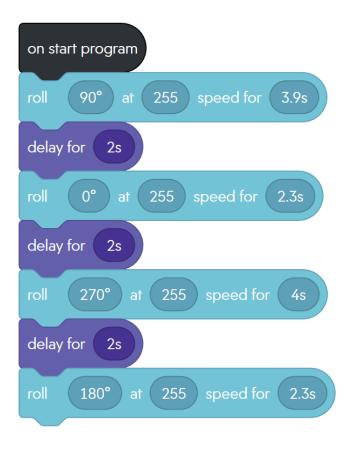
- Start
- Move forward at 255 speed for 3.9 seconds
- Delay 2 seconds
- Turn left and move forward at 255 speed for 2.3 seconds

- Delay 2 seconds
- Turn left and move forward at 255 speed for 4 seconds
- Delay 2 seconds
- Turn left and move forward at 255 speed for 2.3 seconds
- End.

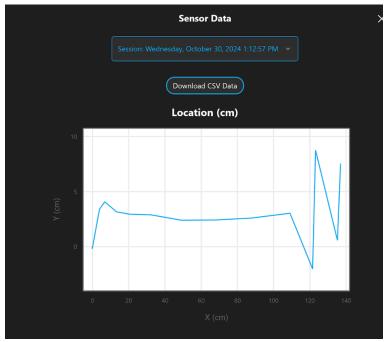
5. Flowchart



6. Block Code



7. Sensor Data Diagram (for some reason it won't update to the new one, so this is a little bit of an older version)



8. Test Table

Test Case	Description	Expected Outcome	Actual Outcome	Pass/Fail
TC1	Move forward for 4 seconds	Robot moves perfectly straight for 4 seconds	Robot moved mostly straight for 4 seconds	Pass
TC2	Turn left and move foward	Robot turns perfectly left and moves foward	Robot turned left with slight degrees of error	Pass
TC3	Complete full rectangle	Robot follows the line through the entire rectangle	Robot stayed as close as possible to the line for the entire rectangle	Pass

9. Staffing Plan

Name	Title	Responsibilities
Isaac Sasson	Group leader	Submit project and create github
Bilal Shweb	Group member	Assist with the project and github