Robotics Triathlon

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Challenges

➢ One of the biggest challenges we faced was the availability of room HH-208. It isn't always available as classes occur in the classroom throughout the day. When it was available throughout the day, it was only available for a very short amount of time as another class would need to use the room. We had to plan beforehand and figure out when the room was available. We also had to make the most out of our time while in the room, to try and complete the robot code and videos for the sprint.

Roles of Each Member

➢ Chris was the head of the project. He has the most history with coding, so he did the block code, and took the videos for the sprints while also completing sections in the system design document.

➢ Zach and Royce have very little history of coding, so they were both assistants, who completed sections of the system design documents, and the Gantt chart for each sprint.

What We Learned

➢ After completing this project, we learned that even something like block code can be complicated, and requires patience and skill. We also learned about how much teamwork can go into just one simple project, and that one slip-up in communication can potentially mess up the schedule and completion of the project
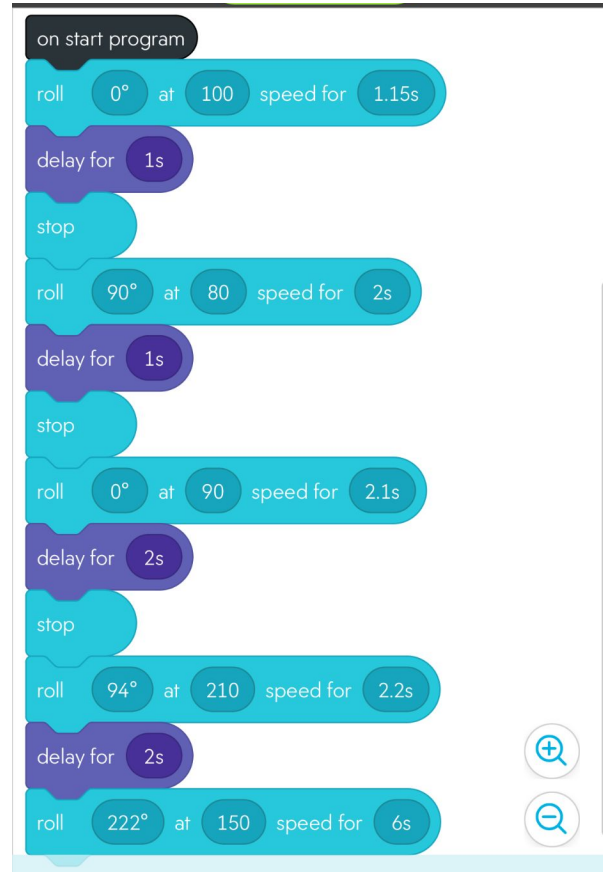
What Differences Would We Make?

➤ If we had to complete this project again, we would make sure to get together more often and work on the project in person. We were able to complete it virtually, constantly in contact with each other via email, but it would have been easier if we could have been in person more. We could more easily communicate plans and assist each other when completing various tasks. Something like a zoom meeting or a google meet would have helped with the fluidity of completing the project.

The Code

➢ Our groups code for Sprint 3-Agility:

on start program
roll 0° at 100 speed for 1.15s
delay for 1s
stop
roll 90° at 80 speed for 2s
delay for 1s
stop
roll 0° at 90 speed for 2.1s
delay for 2s
stop
roll 94° at 210 speed for 2.2s
delay for 2s
roll 222° at 150 speed for 6s

Robot Video

➢ Video of our robot completing the agility sprint course: