

Date: 21/04/22

Time: 1120

Place: Maarintie 8

Attendance

Attended: Jed Muff (JeM), Eric Hannus (EH), Antti Sippola (AS), Jere Vepsä (JV), Rituraj Kaushik (RK)

Apologies:

Missing:

Agenda

1. Session aims
 - a. Discuss steps moving forward, diverge from current plan
 - i. Need to ensure code is working reliably
 - ii. Making some design improvements
 - b. Discuss having 2 dedicated days for work on campus
 - c. Discuss new order for: A female to male DC power cable, actuator cables
 - d. Midterm evaluation?
2. Project Plan Track
 - a. Overdue:
 - i. 5.3 Set up Real-Ant in test environment
 - ii. 6.1 Run tests until parts fail
 - iii. 6.2 Manufacture default parts as replacements for tests
 - b. This week:
 - i. 7.1 Design new 3D parts (or other improvements) – option 1
 - ii. 7.2 Design new 3D parts (or other improvements) – option 2
 - iii. 7.3 Design new 3D parts (or other improvements) – option 3
 - c. Next week:
 - i. 7.4 Manufacture (3D printing or otherwise) new parts – option 1
 - ii. 7.5 Manufacture (3D printing or otherwise) new parts – option 2
 - iii. 7.6 Manufacture (3D printing or otherwise) new parts – option 3
 - d.

Outcomes:

1. Progress log:
 - a. EH managed to find a possible fault with the communication to do with the actuator IDs. After correction using an Arduino Uno and some code online, we managed to set the IDs to 1 through 8. This managed to solve some issues with reliability. Still have some issues with the actuators going to the exact point we want them to go, we think this has to do with limits set in the memory of the actuators.
 - b. JuM has 3D printed a soft part test. Seems to be a bit too soft, more details are found in soft parts documentation.
 - c. AS is designing new and improved parts which include thoughts about the housing of the circuits in the body of the robot.
2. Moving forward JuM is working on soft parts, AS is working on new and improved parts, EH, JeM and JV are focusing on fixing the current issues with the software to catch back up with the time plan. This should maximise our efforts in keeping up with tasks.
3. From now on we are going to have two dedicated workdays to work on the project. Thursday by default will be one of them. The other can be flexible, we just need to tell RK a couple of days beforehand.

Group #1-10**Quadruped Robot**

4. Everyone needs to fill in their part for the midterm evaluation and return it to RK by the end of the day.

Action Log

Action to be taken	Who is responsible	Deadline
More soft part improvements and construction	JuM	05/04/22
New design improvements and construction	AS	05/04/22
Fix current software issue with the board	JV, JuM, EH	28/04/22
Self-Midterm Evaluation	All	21/04/22