Project Evaluation - Questionnaire

10 responses

Publish analytics

What phone model did you use during the evaluation?

10 responses

iPhone 13

IPhone 13

Iphone SE
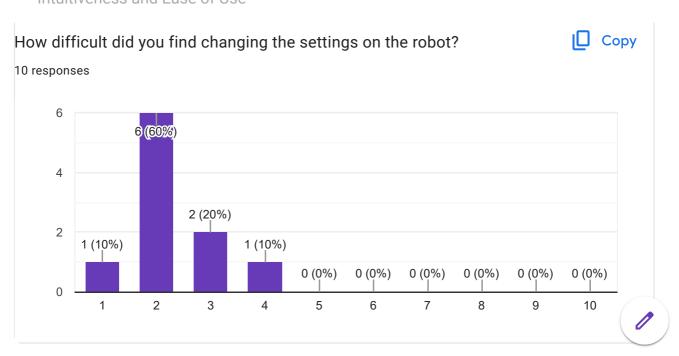
Samsung galaxy s21
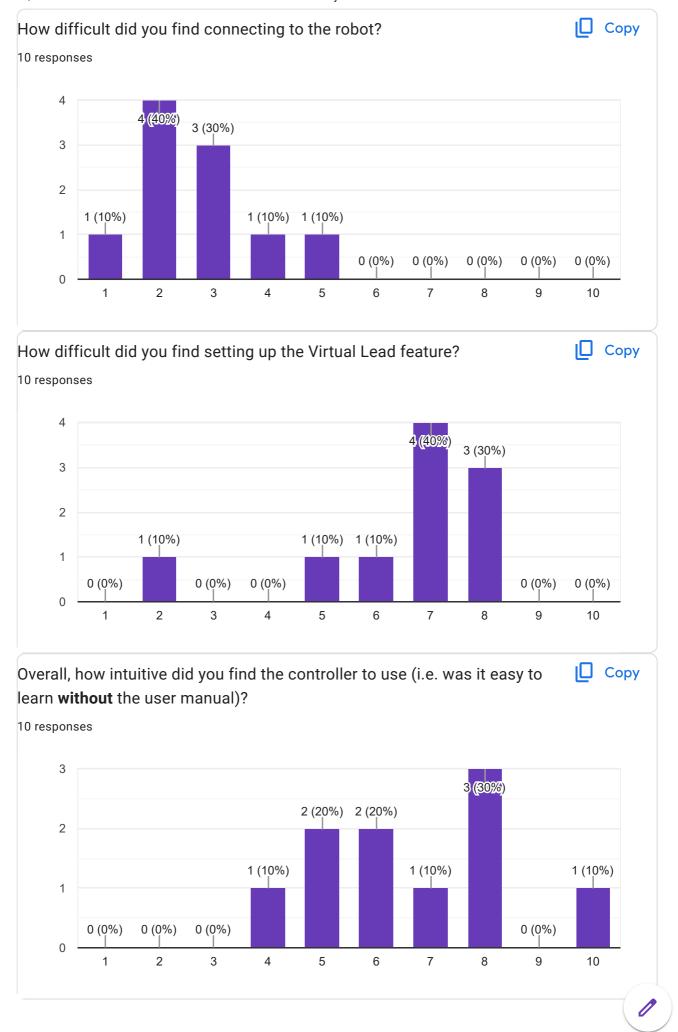
Google Pixel 7

Samsung Galaxy S23
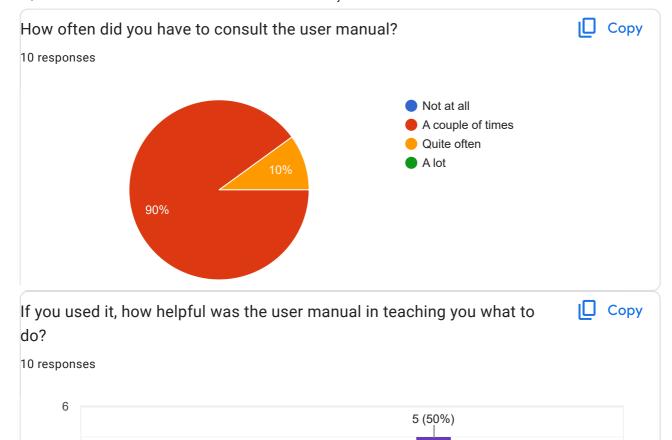
Iphone 13

Samsung Galaxy A51

IPhone SE

Samsung Galaxy A50

Intuitiveness and Ease of Use

How difficult did you find changing the settings on the robot?

Copy

10 responses

How difficult did you find connecting to the robot?

Copy

10 responses

How difficult did you find setting up the Virtual Lead feature?

Copy

10 responses

Overall, how intuitive did you find the controller to use (i.e. was it easy to learn **without** the user manual)?

Copy

10 responses

How often did you have to consult the user manual?   📋 Copy

10 responses

- 🔵 Not at all
- 🔴 A couple of times
- 🟠 Quite often
- 🟢 A lot

90%
10%

If you used it, how helpful was the user manual in teaching you what to do?   📋 Copy

10 responses

1	2	3	4	5	6	7	8	9	10
0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (20%)	1 (10%)	5 (50%)	0 (0%)	1 (10%)	1 (10%)

Any other feedback regarding intuitiveness of the controller or the user manual?
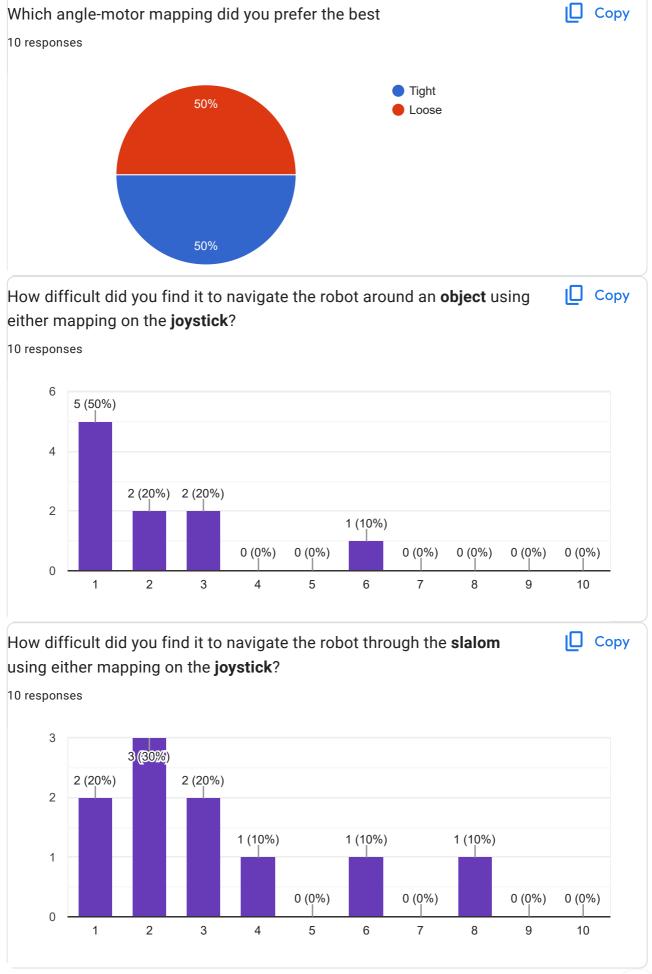
4 responses

The controller, on my phone, in portrait was a bit hard to read. However, I was in landscape for the majority of the evaluation this was not a real problem until I had to use my camera for the self-driving part. Having to refer to my host laptop for the live video was a bit difficult.

The user manual could include a video of connecting to the video lead filming the laptop and phone. The gifs were helpful, but a short demo with audio would have been more helpful for me.
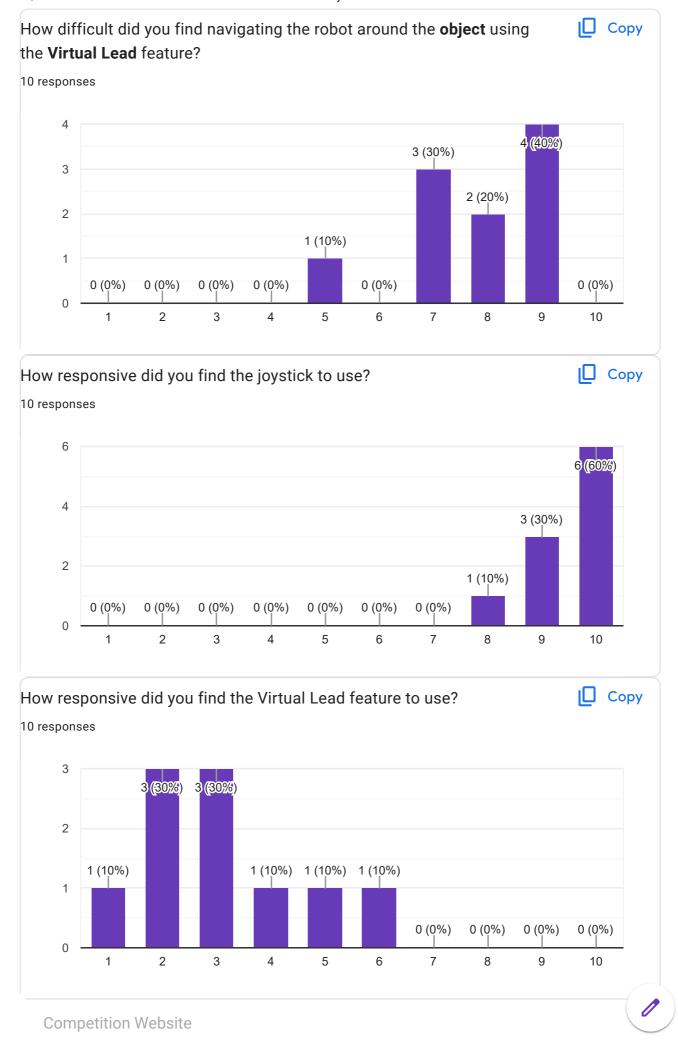
With better latency the camera controller would potentially be more usable !

Nope - with the help of the user manual it was easy to learn

Functionality and Responsiveness

✏️

Which angle-motor mapping did you prefer the best

Copy

10 responses

- 🔵 Tight
- 🔴 Loose

50%
50%

How difficult did you find it to navigate the robot around an **object** using either mapping on the **joystick**?

Copy

10 responses

How difficult did you find it to navigate the robot through the **slalom** using either mapping on the **joystick**?

Copy

10 responses

How difficult did you find navigating the robot around the **object** using the **Virtual Lead** feature?

Copy

10 responses

How responsive did you find the joystick to use?

Copy

10 responses

How responsive did you find the Virtual Lead feature to use?

Copy

10 responses

Competition Website

What is your understanding of what the competition is?

10 responses

The competition is where a person would submit their code for a robot to navigate a pre-built or a custom track. The robot would have a manual state (e.g. a joystick) and a self-driving part. This would then be entered into a competition to compete for the leader boards for a specific track.

The competition is to design and develop a robot controller for a self-driving robot.

A competition to measure robotic self driving coding ability for a track

A competition for people to submit self driving robots to see who's is fastest on the track

The competition is where people can enter code to control a robot and it will be raced on a track.

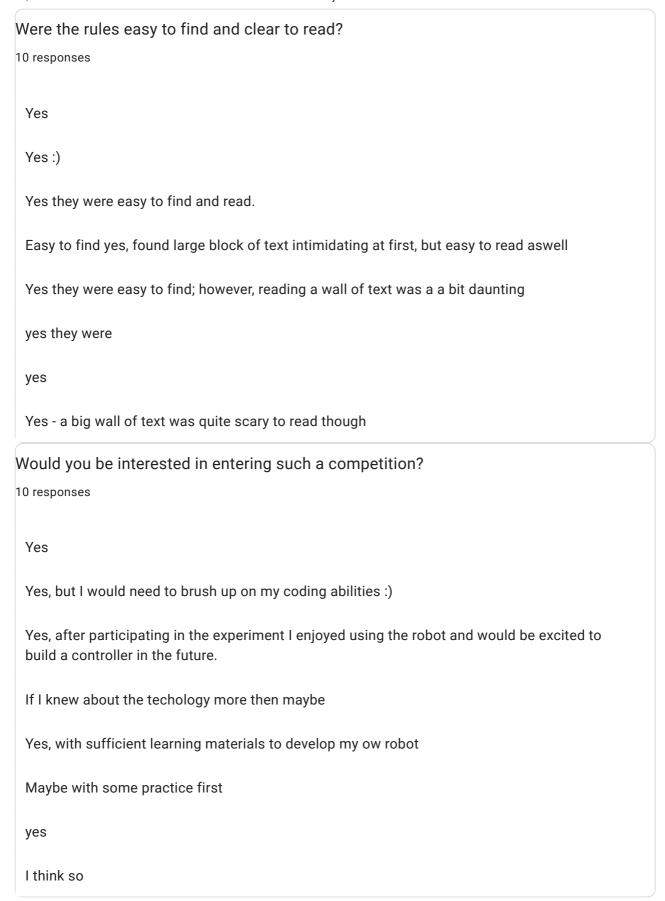A way for people to race their robots on a race-track against other people

A competition for self-driving robots where people can submit their entry and it will get tested on a race-track to get their fastest time.

The competition lets people submit code which can allow a robot to self-drive - this is then tested on a race-track where fastest robot wins.

The competition is a way for people to compete against eachother racing their implementations for a self-driving robot

The competition allows participants to enter online and submit code for their robot to race against other robots

Were the rules easy to find and clear to read?

10 responses

Yes

Yes :)

Yes they were easy to find and read.

Easy to find yes, found large block of text intimidating at first, but easy to read aswell

Yes they were easy to find; however, reading a wall of text was a a bit daunting

yes they were

yes

Yes - a big wall of text was quite scary to read though

Would you be interested in entering such a competition?

10 responses

Yes

Yes, but I would need to brush up on my coding abilities :)

Yes, after participating in the experiment I enjoyed using the robot and would be excited to build a controller in the future.

If I knew about the techology more then maybe

Yes, with sufficient learning materials to develop my ow robot

Maybe with some practice first

yes

I think so

Final Feedback

Did you experience any problems while using the **controller**? If so please detail then below

9 responses

The camera was a bit difficult to pick up the QR code (i.e. had to use a flashlight to make sure the lighting conditions were good enough for it to be recognised).

A problem I faced was setting up the virtual lead for the controller. This was primarily due to being unsure on permitting the camera accessibilities of my own device.

Just adjusting to the controls but after a bit it became easier to control using the joystick. The leed however was harder to use.

struggled understand the role of the laptop and phone in the interaction,

The virtual lead feature could be quite slow

I couldn't finish the Virtual Lead option

The Virtual Lead feature could be difficult to use sometimes

The robot didn't always move when using the Virtual Lead feature

virtual leed feature was difficult to use

Do you have any more feedback to provide about the **controller**?

6 responses

Having the live video on the mobile device instead of the host. Making the controller a little bit more readable in portrait, or to have it locked in landscape.

I found making turns quite difficult. Perhaps it would not make sense to increase the width of the controller, but having more possible speed choices when turning could help with controlling this robot.

I think there should be a clearer indication whether the robot has been connected or not

maybe a diagram to illustrate the peer and host relationship

Maybe add some diagrams to the user manual for how to connect to the phone

maybe include a diagram showing how to connect a smartphone

Do you have any more feedback to provide about the **competition website**?

7 responses

To have the build it yourself function implemented.

I think the functionality the website has is good.

Looks good and informative, maybe links to learning resources?

Nope

It looks really cool!

Seemed really interesting!

there were a few unfinished sections but other than that all good!

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