

## **CprE 491 WEEKLY REPORT 10**

**11/15 – 11/21**

**Group number: 8**

**Project title: Race of Doom**

**Client &/Advisor: Dr Bigelow**

**Team Members/Role: Alex Crandall, Wesley Jansen, Elizabeth Schmitt, Ben Towle, Lalitha Vattyam**

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- **Weekly Summary**

*This week we finished setting up the software space for us to use Raspberry Pi 5 integrated with the Intel RealSense camera and the HC-SRO4 ultrasonic sensors and the RPLidar sensor. We are now in the process of using bash commands to be able to setup the python workspace for us to be able to use the raspberry pi and collaborate with the different sensors that we are implementing.*

- **Past week accomplishments**

- Team Member 1: Alex Crandall: Worked with Ben on getting the Raspberry Pi to start working
- Team Member 2: Wesley Jansen : Worked on getting the UltraSonic sensors configured with the Raspberry Pi 5
- Team Member 3: Elizabeth Schmitt : Worked with Wes to get UltraSonic sensors and RPLidar sensors connected with Raspberry Pi 5
- Team Member 4: Benjamin Towle : Completed the full implementation of the Raspberry Pi software
- Team Member 5: Lalith Vattyam: Worked on downloading the Raspberry Pi 5 OS

- **Pending issues**

Currently we are still working on the hardware design setup in order to be able to make the car efficiently configured with our different components.

- **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b> <i>(Quick list of contributions. This should be short.)</i>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Alex Crandall	Worked with Ben on final setup of Raspberry Pi Software	7	60
Wesley Jansen	Worked with Lizzy to have a fully integrated UltraSonic and RPLidar design with raspberry pi	7	62
Elizabeth Schmitt	Worked with Wes to have a fully integrated UltraSonic and RPLidar design with raspberry pi	7	61
Ben Towle	Completed the installation of the raspberry pi 5 module	7	62
Lalitha Vattiyam	Worked on bash commands for proper system updates and integration	7	61

**\*Starting cumulative hours count on weekly report #1**

- **Plans for the upcoming week**

- Alex Crandall – Start working on obstacle component list and setup
- Wesley – Work on finishing up the hardware schematic
- Elizabeth – Work on finishing up the hardware schematic
- Ben – Continue working on a synchronous SDK
- Lalith – Focus on finishing up the hardware design assembly on the RC car.

- **Summary of weekly advisor meeting**

*We had our meeting with our advisor, Dr. Bigelow, this week and we talked about our progress that we've made so far with getting the individual components connected. We discussed with Dr. Bigelow about our difficulty in getting the raspberry pi installed correctly and he guided us in the right direction with ETG and other resources for us to be able to download the software.*