

Karolis' s Reflection

Situation- 2022 Project System group 25 Consisting of Me Juris, Dimytro and Tarik and Miguel. The goal was to make an autonomous racing car. Our team decided to go with a complex approach of using only a single camera and a raspberry pi Single board computer to accomplish all tasks(line following, obstacle detection, end detection) Every one of us had separate roles to play in the making of this project and I can gladly say with certainty that everyone in this group had equal responsibility and actively completed tasks and cooperated and communicated sufficiently.

Task- I was responsible for the electronics of the system. Schematics, PCB, Electronics implementation, Power distribution/conversion and setup. I also actively assisted my ACS teammates with Programming the car because code and electronics must be in close contact.

Action-My goal was to implement every part of the electronic system from start to finish. I started by doing research on what approach we should take and why. After finalizing the details, ordering the parts, making the schematics and PCB it was time to start research how to implement every part of the car to make it do what it needed. To not waste time, I have built a “prototype” model of the car to evaluate the components, functions, and code. This has massively sped up the development of the project.

Reflection- I am incredibly happy with the cooperation, communication, friendliness, and active participation of my teammates in this project. We had a good relation throughout the whole project. I hope to work together with such teammates in the future. I feel like Everyone has given equal effort and I hope others agree that I have too. I had an exciting time doing this project and I hope others felt the same way.

Transfer- Going forward I would try to manage my time better. There were parts of the project that could have used more time and focus. For ex: I wish I would have done more research about computer vision and writing code for it, so I could have been even more helpful to my teammates. Overall, this project was a success I am happy with the challenging work that was put in by everyone in the team as a result, producing a desirable result.