Qi Yuxuan

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Education

BACHELOR | 2020-PRESENT | SOUTH CHINA UNIVERSITY OF TECHNOLOGY
· Major: Electrical Engineering and Automation
· Minor: artificial intelligence (data mining & computer vision)

Project experience

NATIONAL CONTEST ON ENERGY SAVING & EMISSION REDUCTION
· Full name of the contest: National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction
· Using: Python, C++, SQL, Socket, Html, MQTT, Flask
· Serve as technical lead for a team of four. This project is a system that can remotely detect the status of solar panels in the event of poor network conditions. I responsible for the work of the server, the lower computer program, and participated in the circuit design.
· After two rounds of competition, the project is now in the national stage.

SMART CAR TRAJECTORY VISUALIZATION
· Using: Python, C++, Kalman Filter, matplotlib
· The project is to design a system for plotting the motion of a smart car with limited sensor data.
· I was responsible for the upper computer part of this project. To improve the accuracy of the smart car position estimation, I used a Kalman filter algorithm to combine the encoder and gyroscope data to estimate the smart car position.
· Up to now, the position estimation algorithm has worked properly in computer simulation runs.

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FOOBAR CHALLENGE
· Using: Python
· Meet the Foobar Challenge egg nine days ago. Despite the heavy academic workload, I tried to take on the Challenge in my spare time, until now I have completed level 3, and I am taking on level 4.

On-campus activities

STUDENTS' UNION
· JOB TITLE: Head of Visual Design Department (Propaganda Department), South China University of Technology School of Electricity Students' Union.
· Led teams of fifteen people on several occasions and worked with other departments on events