JiaWei Lee

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Software developer with 3 years of experience in a Turing-Drive, dedicated to researching path planning and GNSS positioning, the main programming languages is C++, C, Python

Skills

Languages: C/C++, Python, Shell scrip
Frameworks: ROS, ROS2
OS: Linux, Window
Developer Tools: Git, Docker, VS Code, Vim, Cmake,
Libraries: Eigen, Opencv, Pandas, NumPy, Matplotlib

Education

National Yunlin University of Science and Technology Yunlin, Taiwan
Department of Electrical Engineering *Sep. 2017 – Jun 2019*

- Mobile robot, Robot Operating System(ROS)

National Formosa University Yunlin, Taiwan
Department of Electrical Engineering *Sep. 2015 – Jun 2017*

Professional Experience

Turing Drive Inc ***(C++/C, Python, ROS, Shell, Linux, Path Planning, GNSS)*** Taipei, Taiwan
Software Engineer *Nov 2019 – Present*

- Upgrade the self-driving system to autoware.universe(ros2), understand the architecture and transplant the previously developed feature to autoware.universe
- Optimized the path planning algorithm and the integrated obstacle information in the Autoware system, execution speed is more than 60% faster, total mileage exceeds 5,000 km, and over 4,000 people have been onboard
- Designed and implemented NMEA parser and NTRIP Caster available to the projects positioning system
- Designed and implemented data log to the path planning system used for algorithm debugging and improved on-site work efficiency by about 50%
- Developed a through 2D LiDAR detection person leg and 3D LiDAR camera fusion

Selected Projects & Awards

Quantitative trading ***(Python)*** May 2022- Present

- Developing the trading strategy
- Get current Cryptocurrency price using the Biance API

Smart trash can ***(C++/C, ROS, Navigation Stack, SLAM, Opencv, PCL)*** Sep 2017 – May 2019

- Designed and Integrated SLAM module, navigation module and sensor module through the ROS, robot served aperiod of time at the NYUST EC404 laboratory
- Developed 2D LiDAR leg detection to using the Adaboost, the detection accuracy on the empty environment is more than 90%
- Researched and Developed 2D LiDAR SLAM algorithm and Navigation Stack