Junseo Min

Autonomous Driving Software Developer

minjs4562@gmail.com GitHub LinkedIn Blog portfolio

Summary

"Every moment adds to My value, My worth increases with every passing moment"
With experience in various activities and the robotics industry utilizing SLAM, I am poised to contribute substantively to research from a practical perspective.

Education

- **Kwangwoon University, Korea**
  Major: Robotics
  Minor: Computer Science

Interest

- Visual SLAM, Lidar SLAM, VO (Visual Odometry), Localization, Navigation (local path, global path)

Experience

- **Kwangwoon University Academic Research Club "Baram"** (2020.03 2020.11)
  - Developed a line tracer robot and a battle robot using ATmega128 boards.
- **Kwangwoon University Robotics Department Student Council** (2020.03 2020.11)
  - Created a course registration manual and guidebook, organized bulk purchases using Excel.
- **Cheil Worldwide - 2022 Samsung Unpack Project (Intern)** (2022.05 2022.08)
  - Web QA for product description pages, involved in communication with overseas teams.
- **Ubiquitous & AI Lab** (2022.12 2023.12)
  - Developed a stock price prediction model for the KRX competition using Transformer.
- **Immersion** (2023.12 Present)
  - Contributed to developing an autonomous robot for advertising services using ROS1, ROS2, and Autoware as an robotics engineer.
- **MPIL(GIST)** (2024.6 Present)
  - Research on SLAM and perception as a research intern.

Projects

- **2D Lidar SLAM with Scout Mini - Algorithm Development**
  - Implemented SLAM and mapping, and localization using ROS-based Gmapping, Cartographer, and AMCL.
- **Simulation Autonomous Driving Project - Algorithm Development**
  - Created a pseudo encoder using EKF-filtered GPS data and thresholded IMU data.

- **HD Map Implementation for Advertising Robot (Immersion)**
  - Implemented a 3D point cloud map and vector map near the office for outdoor advertising.
- **LKAS Project**
  - Developed Lane Keeping Assistance System (LKAS) using OpenCV in the Carla simulation environment.
- **Stock Prediction Model using Transformer**
  - Developed a stock prediction model using Transformer with KOSPI stock data provided by KRX.

Activities

- **Military Service** (2020.12 2022.06)
- **Kwangwoon University Autonomous Driving Technician Training Program** (2023.05 2023.10)

Publications

- **ICROS2024 - AI-BASED Worker Assistant Robot: Shaping the Future of SMART FARM**

Skills

Strong:

- C++, Python, ROS1, ROS2, Linux, TensorFlow, MatLab

Knowledge:

- Java, Serial data/learning model, Computer Vision, mySQL

ETC:

- Git, Jira