Ding Qi

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Self Introduction

I am a student of School of Automotive at Tongji University. I will pursue a phd in Transportation Energy Systems Analysis at 3E Institute of Tsinghua University in 2023! My research interests include energy systems analysis for the transportation sector, including energy management and climate policy, Low-carbon technology strategies, life cycle analysis, and transportation energy strategies.

Education Background

Tsinghua University,Manage Science and Energnering *PHD* 2023.09 - 2028.06

Tongji University,Automobile Engineering *Bachelor* 2018.09 - 2023.06

Rank 4/182 (Top2%),National Scholarship(×2),National Competition Awards(×3),Provincal Competition Awards (×3) ,Outstanding Student of Tongji University（×2）

INTERN

IMMOTORS Strategic Department 2022.11- 2023.03

Consumer Insight

I participated in the domestic and international new energy vehicle industry development trends and current automotive market insights, assisted in the development of new energy vehicle market focus on competing companies, brand development of special research.

NIO Digital Cockpit Department 2022.08- 2022.11

Project Management

During my internship at NIO, I was involved in the project management of the NIO NT2 and NT3 software platforms, driving all departments through a series of processes from requirements elicitation, development scheduling and test flow in an agile and efficient manner.

Competition Awards

Shanghai Third Prize National University Mathematics Competition 2021.12
Shanghai Second Prize University Students' Computer Application Ability Competition 2022.05
National First Prize SAS Data Analysis Competition for Chinese Universities 2021.12
National Third Prize National Student Computer Design Competition 2022.07
East China Third Prize National University Students Intelligent Car Race 2021.08

Research Experiences

Machine Learning-based Path Prediction for Electromagnetic Vehicles 2020.03-2021.03

Based on the MobileNet-SSD detection algorithm, an end-to-end autonomous driving model was trained using the camera capture images after canny edge detection as input and the directional control information of the intelligent vehicle as output and deployed to the edge computing board.

Millimeter Wave Radar of Human Posture and Vital Signs Sensing Technology 2021.03-2022.03

Based on the IWR6843 millimeter wave radar board, separate measurements of breathing and heartbeat signals were completed by differential filtering and variable modal decomposition to achieve multi-target detection of life features at different angles from the same distance. Based on the camera, the detection algorithm for driver blinking and head-down behavior was programmed, combined with face feature points recognition.

Social Activities

Member of Tu-Smart Car Team

Responsible for the structural design and programming of smart cars, I have been invited to give scientific lectures on driverless technology and hold extra-curricular activities at Shanghai High School several times.

Faculty Innovation and Entrepreneurship Base Officer

Regularly organizing academic discussions, participating in the recording and presentation of the online course "Automotive Vibration ", and engaging in many voluntary activities.