Jiang Yi

Senior Software Engineer at BOSCH

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D.O.B: 12 Nov 1990

Language: English and Mandarin

Familiar Domain: ADAS,ICV

EXPERIENCE SUMMARY

- ❒ About 6 years experience of ADAS domain, and always determined to carve a successful and satisfying career in the autonomous industry
- ❒ Full experience for ADAS SOP projects and POC Projects for different OEMs and customers
- ❒ Good Knowledge of C++ programming and Python
- ❒ Experience in development tools, like Git,VSCode,Linux,CMake,Gtest,Docker,ROS/ROS2,Lauterbach,Vectortool
- ❒ Wide range of industries experience, knowledge of AI, Data system, Camera and Radar Sensor, AUTOSAR ,CAN/CAN-FD

SKILLS&TOOLS

- Program language :C/C++, Python, Shell
- English skills: CET6
- OS environment: Linux,RTOS,ROS/ROS2
- Development tools: VSCode,Git,Cmake
- Document: Markdown, Doxygen
- Test: Gtest, pytest

PROJECTS EXPERIENCE

April 2020 – Present Bosch Automotive Products (Suzhou) Co., Ltd. , Suzhou
As a Senior Software Developer

Project#1 CN ICV Collaborative Vehicle-Road Side System POC + Wuxi ICV Pilot Zone Ecosystem

Role : Senior Software Developer

- **Project Description**:
  This project is about collaborative vehicle-roadside system, this system extends the perception skills of in-vehicle system with smart infrastructure sensors, to enhance user experience & availability. we develop DAY1/DAY2 ADAS feature such as collaborative adaptive cruise control, collaborative ramp merge-in features. In this project, I am responsible for the software architecture design and the software development of perception fusion part.
- **Responsibilities**:

1. the design of software architecture for in-vehicle function module
2. software development and test for fusion part, include the pre-processing of road side data, time sync, object fusion
3. software optimization and software decouple, make our system can be applied to prototype system and embedded system.
4. deployment the system into the target hardware, solve issues such as scheduling, run time, bus loading, RAM resource
5. the requirement explanation for related system, such as On-Board Unit, road side perception unit
6. training and build technical stack for new employees

March 2018 – March 2020 (2 year) Veoneer Automotive electronics co. LTD (China), Shanghai
As a Feature Engineer

Project#1 Object Fusion development for ADAS system

Role : Feature Developer

- **Project Description**:
  The Level 2 ADAS Project is based on Front Looking Camera (Veoneer-Mono) and Front Looking Radar (Continental),the VP Algorithm and ADAS Feature is integrated in Camera ,This Project main feature include LKA,TJA,ACC,AEB, Chinese team mainly focus on local development for Chinses OEM Customer, during this project my work mainly focus on Object Fusion Part .Relational Algorithm area include Kalman Filter ,Object Association ,Track management etc.
- **Responsibilities**:

1.Development software logic recording to Chinese Customer Requirement based on Global ADAS Platform.
2.Modify and Verify the Algorithm such as Association, track management ,Object track, Camera/Radar Signal conversion

3.Calibration and verification our algorithm on Real Vehicle to ensure AEB/ACC feature can work correctly
4.Analysis the object fusion data to find root cause of issues on various feature scenarios such as lane change, cut in/out

Jun 2017 – Mar 2018 (10 months)　　联创汽车电子有限公司(DIAS), Shanghai
As a feature development Engineer

Project#1 LKA Feature Development for Intelligent Drive System

Role : Feature Developer

- **Project Description**:

  Development ADAS Demo for SAIC, my work mainly focus on developing LKA function, Relational Algorithm area include Path Plan ,Lateral Control, Feature State Machine, Lane signal process etc. and vehicle tuning as well as vehicle test.

- **Responsibilities**:

1.Development software logic recording to Customer Requirement
2.Design and Verify the Algorithm such as State Machine, EPS Angle Control, Camera signal process
3.Corporation with system Engineer to Discuss and Analysis Feature Requirement
4.Feature Calibration on Real Vehicle to ensure our feature can work correctly and accurately

EDUCATION

- **M.S.(** Mechanical Engineering**),2014-2017,** Shanghai University
- **B.E(**Process Equipment and Control Engineering),**2009-2013**, Shenyang University of Chemical Technology