

YIN AIWEI

(+39)3476119921 ◇ aiweiyin@outlook.com ◇ www.yinaiwei.com

EDUCATION

Politecnico di Milano, Milan (Italy)
B.S. in Computer Science, Double Honor Degree

September 2019 - July 2020
GPA: 27.78/30

Tongji University, Shanghai (China)
B.E. in Electronic Information and Engineering

September 2016 - July 2019
GPA: 89.1/100

EXPERIENCE

SLAM Algorithm Engineer
Development of the SLAM system for Autonomous Robot Cleaners

Gaussian Robotics, Shanghai
August 2020 - Current

Research Assistant
Development of a new SLAM system

Tongji Intelligent Vehicle Group
June 2019 - September 2019

- Utilization of YOLO to detect objects and used Dual Quadric to represent objects in the 3D environment
- Solution of Data Association problem in SLAM via a probabilistic method on back_end
- Experience in C++, g2o, Eigen and ROS

Research Assistant
Was involved in the development of an Auto-Parking system

Broadband Wireless Communication and Multimedia Lab. of Tongji
September 2018 - December 2018

- Development of an Around View System
- Deployment of the system on nVIDIA PX2 and testing of the system on real vehicle
- Experience in C++ and OpenCV

leader of CV group
member of CV group

Robomaster 2019 - Team Superpower
Robomaster 2018 - Team Superpower

- Utilization of Low-Level Object Detection Algorithm to detect and track a target with high speed (200 FPS) on CPU
- Solve the 3D location of the target and track the motion of target via Kalman Filter
- Control a two-axis gimbal to sight at the target with high speed (response time <100ms) and high precision (steady-state error <0.5°)
- Launch projectiles to hit the motion target in the distance up to 10 meter

PROJECTS

Santorini
- A multi-player online card games implemented via Java and JavaFX

Polimi Final Project of Software Engineering

Rail Eyes
- Thales Project Arduino Campus Winner (Second Prize)

An IoT railway pedestrain warning device

HONORS

Robomaster 2019 Final Tournament, Second Prize
Robomaster 2018 Final Tournament, First Prize

ZhangRenliang Scholarship of Tongji University
Tongji Scholarship of Excellent

SKILLS

Programming C++/C, JAVA, Python, MATLAB, HTML/CSS/Javascript **System** Ubuntu, ROS, Arduino
Software Library OpenCV, OpenGL, g2o, Eigen, PyTorch **Multi-Lingual** Chinese, English, Italian(basic)