YIN AIWEI

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EDUCATION

Politecnico di Milano, Milan (Italy)   *September 2019 - July 2020*
B.S. in Engineering of Computing Systems (Informatica) Double Honor Degree   GPA: 27.78/30

Tongji University, Shanghai (China)   *September 2016 - July 2019*
B.E. in Electronic Information and Engineering   GPA: 89.1/100

EXPERIENCE

Research Assistant   *Tongji Intelligent Vehicle Group*
Development of a new SLAM system   *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   *Broadband Wireless Communication and Multimedia Lab. of Tongji*
Was involved in the development of an Auto-Parking system   *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   *Robomaster 2019 - Team Superpower*
member of CV group   *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   *Polimi Final Project of Software Engineering*
- A multi-player online card games implemented via Java and JavaFX
PhotoStick   *An Android app for presenting and sharing photos*
- Developement of web page and back_end with Python, Flask and Javascript
Rail Eyes   *An IoT railway pedestrain warning device*
- Thales Project Arduino Campus Winner (Second Prize)

HONORS

Robomaster 2019 Final Tournament, Second Prize   **ZhangRenliang Scholarship of Tongji University**
Robomaster 2018 Final Tournament, First Prize   **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)