Curriculum Vitae

Mingcong Chen

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EDUCATION

Xidian University   Xi'an, China   09/2015-07/2019

- BEng in Telecommunication Engineering
- GPA 3.6/4

Heriot-Watt University (exchange)   Edinburgh, U. K   09/2018-05/2019

- BEng in Telecommunication Engineering with Honours of First Class
- Final project (Edinburgh Centre for Robotics): Build human body skeletons with 3D camera and classify body actions based on deep learning

Kings' College London   London, U. K   09/2019-Now

- MSc in Robotics

AWARDS

- The Second Prize in Global Final of the 18th National College Students Robot Competition-ROBOMASTER 2019 (as consultant)   08/2019
- The First Prize in Western Conference of the 18th National College Students Robot Competition-ROBOMASTER 2019 (as consultant)   05/2019
- The Third Prize in Middle Conference of the 17th National College Students Robot Competition- ROBOMASTER 2018   05/2018
- The Third Prize in Global Final of the 16th National College Students Robot Competition- ROBOMASTER 2017   08/2017
- The First Prize in Western Conference of the 16th National College Students Robot Competition- ROBOMASTER 2017   05/2017
- The Second Prize in the Third President Cup Innovation and Entrepreneurship Competition of Xidian University and The third China "Internet+" College Students Innovation and Entrepreneurship Interschool Competition   07/2017
- Certificate of Utility Model Patent: multi-function watch   03/2013

PROJECTS EXPERIENCE

- **Vending Machine（15:1 model）**   09/2017-12/2017

  Responsible for software design. Based on C#, .NET designed the customer terminal and remote management terminal. The vending machine can realize the Chinese voice recognition controlling (Based on Windows system.speech). It can also send the sell details to a remote server and the remote management terminal can download and monitor the data (Based on SFTP).

- **IRobot Robot Team of Xidian University**   12/2016-08/2019

  The team has 30 members (10 R&D personnel, the rest of them are responsible for processing and operation of the team). The team independently designed 7 fully automatic and semi-automatic robots from three aspects of Mechanics, Robot Controlling and Robot Vision. At present, the team has formed a scale, with three sponsors, five CNN metal engraving machines, twenty one 3D printers, and a systematic outsourcing processing chain. A complete training system for new recruits has been established, and a summer camp called Xidian Robots camp has been established. It has been incorporated into the school innovation and Entrepreneurship Week curriculum, recruiting summer campers for freshmen and recruiting outstanding people into the battle team.

  As one of the funder of the team, the member of Robot Vision group, chef developer of Infantry Robot's Vision Algorithm System. Based on C++, OpenCV, Caffe developed an auto-aiming system which can detect the armor of enemy robots to realize auto-shooting function and competition field rune detection and auto-shooting system. Take the role of team projects managements and joint tests. In the summer camp, to serve as the interviewer of software algorithms.

INTERNSHIP EXPERIENCE

- **Inspur Group Co., Ltd**   07/2019-09/2019

  Position: Technology Center, Autonomous Vehicles Team I, Artificial Intelligence Development

  Independently developed a objects detection system based on C++, OpenCV, Caffe, ROS and an action recognition system based on C++, Python, OpenPose, OpenCV.

- **Inspur Group Co., Ltd**   07/2018-09/2018

  Position: Technology Center, AI Team II, Artificial Intelligence Development

  Responsibilities: independently developed road identification detection and vehicle identification detection of automatic driving based on computer vision, code transplantation on ROS, and integration with partial codes of LiDAR; made a demo using Intel Realsense and Turtlebot (SLAM's application in automatic driving)

- **China Unicom Software (Beijing Headquarters)**   07/2017-09/2017

  Position: Intern Development Engineer of Operation and Maintenance Development

  Responsibilities: engaged in the development of Python and Shell script, and maintenance of production environment server; assisted in developing ETL monitoring system and completed the data processing work of the company's revenue sharing.

EXTRACURRICULAR ACTIVITIES

Participated in Science and Technology Association of Xidian University, taking responsibility for the training of software and hardware technology for students in the whole university, and holding electronic design competition and assisting experts and professors to review and evaluate works.

PROFESIONAL SKILLS

- Proficient in multiple programming languages such as C, C++, C#, Python, Matlab; Rich experience in OpenCV development and the using of deep learning frameworks such as Caffe, darknet and PyTorch.

- Familiar with operation systems Windows and Linux and the development based on CMake under Linux. Also familiar with code management tool Git and mark-up language Markdown.

- Know the usage and development of ROS and how to develop AVR and Arduino based on C;