HAO WANG

No.28, Xianning West Road, Beilin District, Xi'an, Shaanxi Province, China
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EDUCATION

Xi'an Jiaotong University *September 2014 - June 2018*
B.E. in Electrical Engineering and Automation Overall GPA:3.68/4.3 87.5/100
Top 10%
Related Courses: Programming Languages, Software Engineering, Intro. to Computer structure, Machine Learning, CNN for Visual Recognition, Data Structures and Algorithms

HONORS & QUALIFICATIONS

Outstanding Graduate of XJTU 2018
National Scholarship (6 out of 337) 2017
1^{st} Prize of the 3^{rd} GaN System Competition organized by CPSS
The Silver Award of Shaanxi Province in the 3^{rd} 'Internet +" Competition
National Encouragement Scholarship (12 out of 337) 2016
2^{nd} Prize in Mathematics Modeling Contest of Shaanxi Province
Excellent Student of XJTU
National Encouragement Scholarship (12 out of 337) 2015
1^{st} Prize in Mathematics Modeling Contest of XJTU

TECHNICAL STRENGTHS

Computer Languages C/C++, Python, MATLAB, LaTeX, SQL
Tools PyTorch, TensorFlow, Linux, SLAM

RESEARCH & EXCHANGE EXPERIENCE

Internship in UISEE June 2019 -
LiDAR point clouds Segmentation

· Built a deep learning network based on VoxelNet, including adjusting the data format and streamlining the network structure.
· Data augmentation using rotation, improved the recall rate and generalization capacity in specific dataset.
· Annotated LiDAR data manually and analyzed the impact of data on networks.

Handwritten Numbers Recognition Program May 2019
Leader

· Labeled images with one-hot method and divided MNIST dataset to train, validation and test set.
· Trained and predicted handwritten numbers using the DNN with Softmax output and GradientDescentOptimizer in TensorFlow, got an accuracy of 91%.
· Established a three-layer convolutional neural network with pooling layer to increase the recognition accuracy of MNIST to 97%.

China Mathematical Contest in Modeling August 2018
Leader

· Analyzed the principal component and the classification result to find anomalous center and data.
· Used the K-Means and FCM algorithms to classify the terrorist attacks.

UAV Development, National University of Singapore 12 July, 2017 - 10 August, 2017
Core member

- Processed sensor data with Kalman filter, exchanged messages between laptop and APM 2.6 based on MAVLINK Protocol and used Mission Planner to monitor drone.
- Collaborated in a team of three to discuss project specifications, task assignments and solutions.
- Presented weekly progress to the tutor to ensure deadlines were met.

Development of Information Management System with MCU March 2017 - May 2017
Leader *Innovation Training Program, XJTU*

- Designed a system that can recognize ID cards, display information like identification photo and book lending information, and can change the password online.
- Completed program development of AT89C51 MCU in C language and communication between the client and host.
- Developed the user-friendly interface in JAVA.
- Realized the query, addition, deletion and modification of MySQL database.

EXTRA-CURRICULAR

Minister of Tang Zhongying Love Society. September 2017 - July 2018

- Responsible for the materials management, sending notices and team building.
- Organized various activities like bag guards and visiting the elderly in the community to pass love, care and attention.

Member of Runner Club September 2016 - Present

- Take professional running training every week and run a marathon once a year.
- Swim, play badminton and regularly go to gym with other members.