

Jiaqi Zhang

Automation Science and Electrical Engineering, Beihang University,
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EDUCATION

BUAA(Beihang University)

Sep 2015- Jul 2019(Expected)

Bachelor of Automation Science and Electrical Engineering

➤ GPA: 3.83/4.0 (rank: 7/231)

- Core Curriculum: C Language, Microcomputer Principle and Interface Technology, Statistical Probability, Network analysis, Principle of Automatic Control.

RESEARCH EXPERIENCES

Electroencephalogram(EEG) Classification and Brain Computer Interface Research Based on

Motor Imagery

Oct 2016 –Oct 2017

- Processed the EEG(electroencephalogram) signals by NA-MEMD, HHT (Hilbert-Huang transform) and CSP algorithms
- Used the SVM (support vector machine) and random forest algorithms to extract features of EEG for classification.

Photographic image synthesis based on deep learning

Sep 2017 –Dec 2017

- Try to design a network that can synthesis high-resolution photographic image
- Mainly using CRN network and GAN network.

Ecovacs Fourth "Drive Away" Cup Robot Contest

Aug 2016 –Dec 2016

- Designed the mechanical structure of robot to accomplish specific tasks.
- Used several sensors. (ultrasonic obstacle avoidance, infrared searching track, etc.)
- Wrote program by C and optimize algorithm to improve robot's performance.
- Used Arduino single-chip microcomputer as robot's core.

COURSEWORK PROJECTS

E-mail Network Analysis (in UIUC)

Jul 2017 – Aug 2017

- Used software to deal with e-mail data and drew the network graph.

CPU system design and simulation

Oct 2017-Nov 2017

- Design a simple CPU system and use stimulation software to stimulate its function.

ACTIVITIES

Summer Intern of UIUC(university of illinois at urbana-champaign)

Jul 2017 – Sep 2017

- Studied two courses in UIUC, network analysis and Principle of Automatic Control.
- Interviewed professors and students and wrote news articles.

PROFESSIONAL SKILLS

➤ C, python, MATLAB, Tensorflow, Proteus, Arduino

HONORS and AWARDS

- National Encouragement Scholarship of BUAA (9/231) 2017
- Honorable mention Award for MCM/ ICM of American college students 2017
- First Prize for China Undergraduate Mathematical Contest in Modeling 2016
- Third Prize in Ecovacs Cup Fourth "Drive Away" Cup Robot Contest of BUAA 2016
- Third Prize in Mathematical Contest of BUAA 2015