He Shuncheng

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Education

2012– **Automation**, *Tsinghua University*, Beijing, *Grade 4*.
- GPA:92/100, rank 3rd/140
- Proficient in these courses:
- Mathematics: Linear Algebra, Calculus, Discrete Mathematics, Probablity, Operation Research
- Engineering: Engineering Graphics, Electronic Technology Practice
- Electronics: Electronic Circuits, Digital Electronics, Power Electronics
- Programming: C, C++, Data Structure, Artificial Intelligence
- Control theory: Classic Control Theory, Modern Control Theory, Process Control

Academic Skills

Programming languages

- Proficient in C, C++
- Knowledge of Matlab, LaTeX, Python, Java, Swift, mySQL, Haskell and Assembly Language

Programming environment and development kit

- IDE: Visual Studio, Qt Creator, Xcode
- Libraries: OpenCV, libsvm, Caffe, DirectX3D, NLTK

Academic Interests

- Deep Learning
- Computer Vision
- Machine Learning

Academic Experience

2015– **Junior Research Assistant in The Chinese University of Hong Kong**.
- Exploration of Yahoo's 100M Image dataset
- Classifier design based on deep learning
- Concept learning on image dataset

2014– **Tsinghua Spark Program**.

2014–2015 **Laboratory Program**.
- Research of video segmentation
- Extracting features from video frames
- Learning object contour

2013–2014 **Student Research Training Program**.
- Distributed and large-scale IVICS (Intelligence Vehicle Infrastructure Cooperative Systems) 3D Simulation System
- Study in car following algorithm and signal timing
- Supported by the National High-Tech Research and Development (863) Program of China (No.2012AA112305)

Awards and Scholarship

- China National Scholarship, Ministry of Education of PRC, 2014
- The First Prize of the *Challenge Cup*, Tsinghua University, 2014
  Project: Distributed and Large-scale IVICS(Intelligent Vehicle Infrastructure Cooperative Systems) 3D Simulation System
  The first author of the project
- The Third Prize of the *Challenge Cup*, Tsinghua University, 2014
  Project: Intelligent Car Platform Based on Infrared Radiation Detection
  Co-author of the project
- Scientific and Technological Innovation Scholarship, Tsinghua University, 2014
- Tsinghua – DEK SMT(Surface Mounting Technology) Scholarship, Tsinghua University, 2014
- The Third Prize of the 8th Transportation Techology Contest, Department of Civil Engineering, 2014
- Tsinghua Friends – Scholarship of DONGFANG ELECTRIC, Tsinghua University, 2013
- The Third Prize of the 10th Novice C Language Programming Contest, Department of Automation, 2013
- The Second Prize of Outstanding Freshmen, Tsinghua University, 2012

Social Experiences

2015– **Association of Science and Technology of Automation, Tsinghua University**.
- President

2014–2015 **Association of Science and Technology of Automation, Tsinghua University**.
- Vice President