

Zikui Cai | Curriculum Vitae

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Faithful Scholarly Skillful Courageous Ambitious

Education

Academic Qualifications.....

- **University of California, Riverside** **Riverside**
GPPE Program, Electrical and Computer Engineering *Fall 2017–Present*
- **Wuhan University of Technology** **Wuhan**
Bachelor of Engineering, Automation *Fall 2014–Spring 2017*
GPA: 4.12/5 Ranking:1/70

Notable Project.....

- **Senior Design Project: Self-driving Electrical Vehicles**
We developed 2 autonomous electrical vehicles with cameras that can detect objects. I am responsible for setting goals and ensuring all the electronic system designs are realized on time and meet the specifications of the project. We used TensorFlow and OpenCV to process videos captured by the cameras.

Research Experience

- **Undergraduate Research, Visualization and Intelligent Systems Laboratory, UC Riverside**
'Deep Learning Image Classification'
Supervisor: Bir Bhanu
I implemented different machine learning algorithms such as KNN, SVM, MLP and CNN using python to classify MNIST dataset. Visualized the whole process of CNN and obtained an insight into this algorithm. In doing my research, I developed the abilities to build models quickly and analyze them with mathematical tools.

Award & Honors

- **National Scholarship:** 2014, Ministry of Education of the People's Republic of China
- **Outstanding Student:** 2014-2016, Wuhan University of Technology

Technical skills

- **Programming Languages:** Python, C, Javascript
- **Libraries / Frameworks:** TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib
- **Preferred Software:** Jupyter Notebook, PyCharm