

Zikui Cai | Curriculum Vitae

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Passionate about science. Skilled in teamwork.

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 Projects.....

- **Self-driving Electrical Vehicle: 'Senior Design Project'**
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.
- **Sound Synthesizer: 'Mini Project for Data Acquisition, Instrumentation, and Process Control class'**
In this interesting project, we made a piano with coke cans as a keyboard. I took the initiative to form the idea of the whole project. Through this project, our ability of information retrieval got improved and our team-working skills got strengthened.

Research Experience

- **Undergraduate Research at Visualization and Intelligent Systems Laboratory, UC Riverside:**
'Deep Learning Approaches in Image Classification'
I implemented different machine learning algorithms on hand-written digits recognition and have an insight into the parameters of every algorithm. In this process, I obtained the overview of the modern history of object recognition and stayed in tune with the frontier of this field. My supervisor is Prof. Bir Bhnau.

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, Scikit-Learn, Numpy, Pandas, Matplotlib
- **Preferred Software:** Jupyter Notebook, PyCharm