Cat Le

Electrical Engineer

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EDUCATION

2018 - Now **Duke University**
Ph.D. Electrical/Computer Engineering
GPA: 4.00

2016 - 2017 **California Institute of Technology**
M.S. Electrical Engineering
GPA: 4.00

2014 - 2016 **Rutgers University–New Brunswick**
B.S. Electrical/Computer Engineering
GPA: 4.00

WORK EXPERIENCE

Aug 2018 - Now **Graduate Research Assistant**
Duke University
Research under the supervision of Prof. Vahid Tarokh

Jul 2017 - Jul 2018 **System Engineer**
Motorola Solutions
Design hardware and firmware for license plate recognition camera.

Aug 2015 - May 2016 **Undergraduate Research Assistant**
Rutgers University
Research on Cloud-Radio Access Network under REU Funding of NSF.

RESEARCH AND HONOR

Salieri Venture Design - Real-time musical note detector (FPGA, FFT) that helps users learn music by ear and play it flawlessly.

On-chip qPCR - Integrated real-time PCR (CCD, LabVIEW) that amplifies and generates thousands of copies of a DNA segment.

Sign Language Translator - JPL Sleeve is used to read the signal from 20 muscles on the human's hand and map it into alphabet.

Vision-based Self-Driving Car - Anonymous car (Raspberry Pi, OpenCV) responds to traffic lights, stop signs, and pedestrians.

Cloud-Radio Access Network - 2 LTE base stations (URSP) automatically allocate resources based on the users' demand.

Voice-Controlled Board Game - MATLAB program, based on Viterbi algorithm, uses voice command to control chess pieces.

Multiple-User Walkie-Talkie - Each user is assigned to specific AM/FM channels, with transmission latency less than 1 second.

Runner-up
2016 Caltech Technopreneurship

Nikola Tesla Scholar
Columbia University

Summa Cum Laude
Rutgers University

Matthew Leydt Award
Rutgers University

John B. Smith Award
Rutgers University

Outstanding Engineering Scholar
Rutgers University

E. M. Toomey Scholarship
Rutgers University

SKILL

Python	★★★★★	**Pytorch**	★★★★☆
Pytorch	★★★★☆	**Keras**	★★★★☆
MATLAB	★★★★★	**Numpy**	★★★★★
C/C++	★★★☆☆	**Scikit-learn**	★★★★★
LabVIEW	★★★★★	**Matplotlib**	★★★★★
OpenCV	★★★★★	**Pandas**	★★★★★

ACTIVITY

Tau Beta Pi
Academic Outreach

Eta Kappa Nu
Treasurer

Sigma Alpha Pi
Member

Caltech Y
Volunteer

Rutgers SPIE
Representative

Rutgers Rotaract
Coordinator