

# LIU ZICHEN

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## EDUCATION

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### National University of Singapore

*Aug 2016 - Present*

Bachelor of Engineering in Electrical Engineering, Honours, Research Focused Pathway  
Department of Electrical and Computer Engineering, 4.88/5

### Hanyang International Summer School, South Korea

*Jul 2018*

Studied courses including project management, engineering professionalism

### Peking University Summer School, China

*Jul 2017*

Studied courses including economics

## ACHIEVEMENTS

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Awarded Senior Middle 2 Scholarship by Ministry of Education, Singapore

*2015*

Awarded Science & Technology Scholarship by NUS

*2016 - 2020*

Won the Table Tennis singles for semi-final during the NUS Inter-Hall Games and contributed to my team clinching the overall championship (Male) title

*2016*

Awarded Dean's List for being placed in the top 5% of the cohort

*All possible semesters*

## PROJECTS

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### Neural Network on the System-on-Chip

Built an automated training and testing pipeline of a fully connected network on an embedded system with *Zynq-7000* using C++ and Verilog; supports hardware acceleration by FPGA

### ARM Processor

Built a pipelined ARM processor (ARMv3) at the micro-architecture level on FPGA using Verilog HDL

### Text Detection and Recognition

Implemented a pipeline for scene text detection and recognition based on CNN and RNN

## WORK EXPERIENCE

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### Shopee, Singapore

*January 2019 - Present*

*Data Science Intern*

Focuses on visual recognition tasks including classification, object and text detection, saliency segmentation and interactive segmentation

## EXTRA-CURRICULAR

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### Vice Head of Logistics and Welfare, NUS Chinese Society

*Aug 2017 - May 2018*

Coordinated with department members to set up and hold *The 10<sup>th</sup> National Calligraphy Contest* in NUS  
Collaborated with members in the society to prepare and execute the *Date or Not* show attracting over 300 audiences

### Executive of NUS ECE Club

*Aug 2017 - May 2018*

Collaborated with team members to plan and conduct workshops for *Raspberry pi* and *3D printing* to benefit students across faculties to learn useful skills

### Member of Table Tennis Competition Team (M), NUS Sheares Hall

*Aug 2016 - May 2017*

Participated in *NUS Inter-Hall Games 2016* and contributed to my team winning clinching the overall championship (Male) title