

# ZHU, Lulin (朱璐琳)

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## EDUCATION & ACHIEVEMENTS

### University of Sheffield(Studying)

Sept. 2022 - Sept. 2023

Master's Degree, Data Communication

- Main Courses:

Network and Internetwork Architectures, Foundations of Object Oriented Programming, Computer Security and Forensics, Network Performance Analysis, Data Coding Techniques for Communication and Storage, Principles of Communications, Mobile Networks and Physical Layer Protocols, Wireless Packet Data Networks and Protocols.

GPA: semester1:71/100(Expected to graduate with a DISTINCTION degree)

Graduation Thesis Direction: 3D Human Pose Estimation(Remarks: In progress)

### North China Electric Power University ( NCEPU ), Baoding, China

Sept. 2014 - Jun. 2018

Bachelor's Degree, Electronic Information Science and Technology

- Main Courses:

C language programming, signals and systems, communication principles, digital signal processing, embedded principles and applications, etc.

- GPA: 80/100(Top 20%)

- As the main person in charge of the project "indoor object recognition research based on deep learning", and won the provincial students' innovation and entrepreneurship project. (2016-2017)

- Third prize in the electromagnetic group of the Freescale Smart Car Competition(2016)

## CAMPUS EXPERIENCES

### Research On Indoor Object Recognition Based On Deep Learning

May. 2016-May. 2017

*The prime principal*

- This project builds a CNN recognition network, training for indoor objects
- Achieved the expected results and successfully applied to become a provincial project in Hebei Province

## WORK EXPERIENCES

### ChangLongXin Technology Co., Ltd(China)

August 2019-August 2021

#### *Software Engineer*

*The development of two-dimensional code-scanning boxes*

- Participate in the construction of two-dimensional code scanning program framework
- Speed up image processing by using hardware IVE acceleration module in the Hisilicon media processing platform(Hi3518ev200)
- Participate in the accelerating of ZBAR algorithm based on 2d-code recognition

*Video surveillance platform*

- Understand RTP,RTSP, RTCP protocol
- Receive 16-channel network camera signals through RTSP client, decode H264 format stream output display through Hisilicon hi3536

*Formulate the communication protocol between the host computer and the main board and the LED control system of FPGA*

- Receive data sent by PC software/front panel through TCP/Serial port in Linux framework, and output it through serial port/spi.
- Responsible for the upgrade module code writing of all boards of the led control system

*R & D of small building block robot products*

- Participate in the drawing of the PCB boards of the lower computer, be familiar with the use of PADS and CADENCE and assist in completing the reliability test of individual modules
- Participate in the writing of the small module code of each sensor, familiar with the development of STM32 chip

### BYD Automotive Industry Co., Ltd(China)

Sept. 2021 - August 2022

#### *Product Manager*

*Internet of Things hardware terminal*

- Complete the market research and competitive analysis of the Internet of Things hardware products with NB-IOT water level and smoke sensation
- Complete the functional design and software and hardware solutions of the Internet of Things hardware products Investigation and feasibility analysis
- Follow up the progress of the project, Coordinate the problems and project scheduling in software and hardware research and development

#### *Internet of Things sass software application*

- Complete the market research and program design of intelligent solutions for high-risk operations
- Complete the design of PRD documents and prototypes of the SASS software platform for high-risk operations
- Select the corresponding Internet of Things equipment, coordinate with the platform software for protocol access, and build a pilot for high-level operation in the park

### IMPORTANT SKILL

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#### **IT Skills:**

1. Have a good C / C ++ language foundation (software engineer experience for 3 years)
2. Proficient in Microsoft Office software, programming software such as Visual Studio, Source Insight, Keil uVision.
3. Circuit diagrams and PCB drawing software such as PADS, Cadence, etc.

#### **English Skill:**

TOFEL :103

### EXTRA-CURRICULAR ACTIVITIES & POSITIONS OF RESPONSIBILITY

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|---|----------------------------|
| • Head of Activities Department, North China Electric Power University Reader Association | <b>May. 2015-May. 2016</b> |
| • Participate in the 19 <sup>th</sup> MOFANG Shenzhen 100km Hike                          | <b>May. 2019</b>           |
| • Excellence Award in the "Review History, Firm Faith" Poster Design Competition          | <b>May. 2016</b>           |

### ADDITIONAL INFORMATION

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**Hobbies:** running(2019 Baoan Marathon), Painting, Hiking(the 19<sup>th</sup> MOFANG Shenzhen 100km Hike)