

Zhen Xu

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EDUCATION

University of Science and Technology of China

Hefei, China

Bachelor of Engineering in Electrical Engineering

09/2020-present

- **GPA:** 3.57/4.3(86/100) **Ranking:** 23/75
- **Courses:** Digital Logic Circuits, Linear Electronic Circuits, nonlinear electronic circuit, Quantum Physics, semiconductor physics, Electronic system design(FPGA), Data Structure and Algorithm, Computer Networks, Equations of Mathematical Physics, Electromagnetic Fields, Information Theory, Stochastic Process
- **Honors:** Scholarship for Elite Class, Awarded to students admitted to the Elite Class

RESEARCH EXPERIENCE

Improvement of interface quality between MoS2 and HfO2

03/2023-08/2023

Integrated Nanoelectronics and X-Computing Lab, USTC

Hefei, China

- Conducted research on essays related to 2D-semiconductors and 2D-insulating materials, including lectures about the manufacture and properties of MoS2 and hBN and the improvement of interface quality
- Participated in the hands-on production of transistor devices such as scribing, lithography, lift-off, ALD, CVD, etc.
- Expressed opinions on the development of 2T1C and 3T0C models for storage and the integration of storage and computation

ACADEMIC ACTIVITIES

Quantitative Program: Predicting stock price changes with Convolutional Neural Network

06/2021-09/2021

University of Science and Technology of China

Hefei, China

- Used tensorflow to write CNN to predict the daily closing price of stocks compared to the previous day
- Used data from June to August 2019 as the training set and data from September to October 2019 as the testing set. The prediction accuracy reached 58%

ADDITION INFORMATION

- **Computer:** C, Python, Verilog HDL, tensorflow, Modelsim, Quartus, VMware, EViews
- **Language:** Chinese(native), English(TOEFL: 106, Reading: 29, Listening: 27, Writing: 27, Speaking: 23)
- **Interests:** Traveling, Running, Working out