

DONGXU GUO

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🎓 EDUCATION

Beijing Normal University, Beijing, China

2017 – Present

B.S. in Electronic Engineering, expected June 2021

Major GPA: 88.26/100 (Rank: 4/16)

Minor in Applied Math

👥 PROJECTS

A Testing Device of Circuit Characteristic

Aug. 2019

Algorithm Design and Implementation Contest project, collaborated with teammates

Summary: A Testing Device was designed to measure the characteristic of an amplifier circuit, the project was awarded **2nd Prize** of National Undergraduate Electronics Design Contest

Features:

- Plot the Amplitude-frequency characteristic curve
- Measure the parameters of the amplifier
- Circuit fault detection

An Adaptive Filter based on C2000 MCU

Jun. 2019

Algorithm Design, MCU Development Training project, collaborated with teammates

Summary: An adaptive filter was designed and implemented to filter out noises in a selective bandwidth

- Designed and Verified the algorithm on Matlab
- Computed Large Point FFT on DSP, improved the computing speed
- Improved real-time performance

A Speaker Recognition System based on SincNet

Dec. 2019

Deep Learning Model training, Propose a dataset for test Course project, collaborated with teammates

Summary: A Speaker Recognition System was built based on SincNet to perform Speaker Recognition tasks on our proposed dataset

- Trained a Deep learning model on our proposed dataset
- Developed a GUI using Python

♡ HONORS AND AWARDS

2nd Prize of National Undergraduate Electronics Design Contest (Top 7.4%)

Sep. 2019

2nd Prize of National Undergraduate Mathematics Contest

Sep. 2018

1st Prize of Contest Scholarship of Beijing Normal University

Nov. 2019

3rd Prize of University Scholarship of Beijing Normal University

Nov. 2019

⚙️ SKILLS

- Programming Languages: C > Verilog HDL == Python > C++
- Platform: Linux, Matlab
- Development: STM32, FPGA, TI-C2000, Web

📄 MISCELLANEOUS

- Languages: English - Proficient, Mandarin - Native speaker
- GitHub: <https://github.com/cruelkiddy>