# Dongxu Guo

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## **EDUCATION**

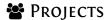
## Beijing Normal University, Beijing, China

2017 - Present

B.S. in Electronic Engineering, expected June 2021

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

Minor in Applied Math



#### 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  $2^{nd}$  **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

2 <sup>nd</sup> Prize of National Undergraduate Electronics Design Contest (Top 7.4%)	Sep. 2019
2 <sup>nd</sup> Prize of National Undergraduate Mathematics Contest	Sep. 2018
1st Prize of Contest Scholarship of Beijing Normal University	Nov. 2019
3 <sup>rd</sup> 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

## i MISCELLANEOUS

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