

YiFan Dong

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EDUCATION

North China Electric Power University (NCEPU)

Beijing, China

Bachelor of Electrical Engineering

09/2019–06/2023(Expected)

•**Overall Average Score:** 93.05/100 •**Overall GPA:** 4.3/5.0 •**Rank:** 5/400

•**Core Courses:** Fundamentals of Analogue Electronics (99), Fundamentals of Digital Electronic Technique (98), Circuit Theory (98), Engineering Electromagnetic Fields (98), Electrical Systems of Power Plants (97), Automatic Control Theory (94), Electrical Machinery (93), Power Electronics (93), Power System Analysis (93)

•**Basic Courses:** Advanced Mathematics (100), Complex Function and Integral Transformation (97), Advanced Language Programming (97), Probability and Mathematical Statistics (93), Linear Algebra (89)

HONORS

•2020, 2021, 2022 National Encouragement Scholarship (3%)

•2020, 2021, 2022 First-Class Academic Performance Scholarship of NCEPU (5%)

•2020 Chinese Mathematics Competition, Second Prize of National

•2022 Engineering Design and Expressing Competition, Second Prize of Beijing

RESEARCH EXPERIENCES

Undergraduate Internship, Power Cycling Test for Power Semiconductor Devices

Beijing, China

Research Project at High-power Devices Reliability Laboratory, NCEPU

02/2021–08/2021

•Set up the laboratory equipment called Power Cycling Test Bench, in order to test the reliability of power semiconductor devices, such as IGBT.

•During the power cycling test, I was responsible for testing the electrical noise and reducing the electrical measurement noise. I chose a wide range of methods, such as utilizing capacitors in parallel and resistance in series, to solve the problem of high noise.

Research Assistant, Principle and Design of Dual Resonance Hybrid Active Power Filter

Beijing, China

Research Project led by Assoc. Prof. Weipu Tan

12/2021–06/2022

•Explored the operating principle of LC Passive Filter (PF) and Active Power Filter (APF), analyzing both strengths and weaknesses of them.

•Participated in the design of circuit parameters, including passive part and active part, attempting to combine them to achieve better performance and lower cost.

Scientific Research Training, Power Allocation of Telecommunication Devices

Beijing, China

Research Project led by Assoc. Prof. Peng Qin

12/2021–07/2022

•Determined the application scenario: Space-air-ground three-tier heterogeneous network

•Wrote Matlab Program to simulate the resource allocation, by using Gale-Shapley Algorithm and method of lagrange multipliers.

•Carried out simulation experiment time after time and finally completed data visualization statistically.

SKILLS

•**Techniques:** C Language, Matlab, Multisim, Visio, Solidworks.

•**Language:** GRE (Quantitative 169, Verbal 152, Analytical Writing 3, Total 324).