

Profile

I'm really intrigued by power electronics. There's an immense feeling of satisfaction in delving into this field and putting in a lot of effort. As a result, my optimistic outlook and aptitude for learning have contributed to my remarkable academic success. With a imaginative and energetic mindset, I'm enthusiastic about integrating power electronics into every facet of life down the road. Lastly, I consistently uphold honesty by keeping my commitments and am always ready to engage with others or assist them, valuing teamwork greatly.

Education

Changsha University of Science & Technology, China | Electrical Engineering SEP 2017 - JUL 2021

Hebei University of Science, China | Power Electronics SEP 2021 - Present
Major: power electronics, circuit principle, electrical engineering, electromagnetism, numerical analysis, advanced Mathematics, linear algebra, matrix theory, etc.

Research Experience

Innovation Lab of the School of Electrical Engineering | Hardware designer SEP 2018 - JUL 2021

- Responsible to designing the hardware of the power converters, such as DC/DC, DC/AC and AC/DC.

Xingsha Center of Hunan Electric Power Company of State Electric Power | Trainee JAN 2021 - MAY 2021

- Responsible to overhauling electrical equipment.

Shijiazhuang Kelin Electric Co., Ltd. | Technical advice APR 2023 - Present

- Providing technical advice, mainly focusing on the modulations and control methods for high power density three-phase three-level T-type inverters.

Special Skills

Professional Skills:

- Being good understanding of DSP, CPLD and FPGA, owning strong C programming ability.
- Skillfully drawing PCB with Altium Designer, possessing substantial experiences of high frequency (above 100kHz) and medium power (above 10kW) circuits.
- Being familiar with circuit simulation software, such as PSIM, PLECS, and Simulink in MATLAB.

Writing Proficiency:

- Owning comprehensive and complete scientific research writing ability, and scientific drawings.

Publication

- Jianliang Chen, **Jie Deng**, etc | A Variable Switching Frequency Control for ZVS Three-Phase Three-Level T-type Inverter Using Hybrid Discontinuous PWM | IEEE Transactions on Power Electronics. (Accpeted)
- Jie Deng**, Jianliang Chen, etc | Light Load Efficiency Improvement for Three-Phase Inverter Employing Variable Switching Frequency Control under Mixed TCM_DCM Operation | IEEE Transactions on Power Electronics. (Under review)

Awards and Certificates

Awards:

- First prize of Hunan College Students Electronics Design Contest in 2020.
- Third Class Scholarship in 2021.
- First Class Scholarship in 2023.

Certificate:

IELTS 6.0, National Computer 3 level test, College English test band 4, driver's license.