KuiHao Chen

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Education

Hebei University of Technology (Project 211) Tianjin, CN

M.S. Electrical Engineering 2018.9-2023.1 GPA 3.55/4

B.S. Electrical Engineering 2013.9-2017.6 GPA 3.25/4

Relevant Courses

Technique of Power Electronics, Control of Motor, Power Semiconductor Device, Motor Transient and Simulation, PWM Modulation, PLC, DSP, C++, Visio, Altium Designer, Matlab/Simulink/Programming, PSpice, Multisim, Maple.

Honors

- Awarded the Scholarship for three consecutive years (2014-2016/2020)
- Be awarded in the English competition.
- Be awarded in the mathematical modeling contest.

Publication

[1] Kuihao Chen, Xiu Liu, "Loss of three phase inverter based on SiC MOSFET considering parasitic inductance."[J] Power Electronics, 57(02),pp129-132+136, 2023.

[2] Kuihao Chen, Xiu Liu, "The loss calculation of three phase inverter on SiC MOSFET considering parasitic inductance and capacitance."[J].Journal of Power Supply, pp1-14, 2024.

Program

The National Natural Science Foundation of China. No. 52077055.2020-2023

- Participate in design of the two-level dual inverter drivers for PMSM. (Matlab)
- Independently complete the design of three-phase full bridge inverters based on SiC MOSFET. (AD,STM32)
- Observe the characteristic of SiC devices by simulation. (Multisim/PSpice)
- Calculate the loss of three-phase inverter. (Maple, Power analyzer)
- Reduce inverter losses by variable the switching frequency. (Simulink)

Work Experience Or Internship

- Vocational skills public training center in Tianjin 2016.10-2016.11 trainee
- Tianjin LG Electronics Technology 2017.1-2017.3 trainee
- Haiheng mould limited company 2020.1-2020.8 trainee
- Prepare for the phd and help the family with business 2023.2-now freelancer

Skills

- Deep understanding of the characteristic of power electronics
- Mastery of motor control-related theories
- Familiar with C++, STM32.
- Skilled in photography ,editing videos, organizing annual meeting activities.
- Language: Mandarin(native), English(fluent)

Self Introduction

- Interested in control of motor, design automation of robotics
- A proactive individual with strong communication skills
- Possessing a robust self-learning ability and problem-solving ability
- Highly resilient under pressure
- Strong self-discipline and responsibility(detailed work plan)