KuiHao Chen

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https://github.com/Kevinckh/Kevin.github.io/blob/main/

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 modelling 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 characteristics 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 centre in Tianjin 2016.10-2016.11 trainee
- Tianjin LG Electronics Technology 2017.1-2017.3 trainee
- Haiheng mould limited company 2020.6-2020.8 trainee
- Prepare for the PhD and help the family with business 2023.2-now freelancer

Skills

- Deep understanding of the characteristics 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)