Zhongtao Guan

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Education

Shanghaitech University   *Sep. 2021 - Present*
Shanghai, China
Bachelor of Engineering, Electronic Information engineering
Overall GPA-**3.80/4.0**, Major Rank-**2/55**, Overall Rank-**8/230**

Publication

1. **Zhongtao Guan**, Jun Wan, Yu Liu, Dian Lu, Mengzhao Duan and Renke Huang. "Accurate Single-Ended Fault Location for Cable-OHL Hybrid Transmission Lines", in Power and Energy Society General Meeting (PESGM), 2023.

2. Jiayu Yang, Yu Liu*, Kang Yue, **Zhongtao Guan**, Minfan Fu and Haoyu Wang, "Closed-Form Solutions of Mutual Inductance and Load for LCC-S Wireless Power Transfer Systems", in 3rd IEEE International Conference on Industrial Electronics for Sustainable Energy Systems, Jul. 2023.

3. Mengzhao Duan, Yu Liu, Ze Liu, Xinchen Zou and **Zhongtao Guan**. "A Group of Single-Ended Time-Domain Line Fault Location Methods Using Breaker Operation Information", in IEEE Power and Energy Society General Meeting (PESGM), 2023.

Research Experience

Power System Protection & Automation Laboratory   *6.2022 – 8.2023*
Mentors: Prof. Liu Yu   *ShanghaiTech University*

- Using single-ended measurement to locate faults on the mixed-transmission line.
- Design a low-Cost inverter with brand-new devices for plugging renewable energy into smart grid.

Motor and Motion-Control Lab   *8.2023–Present*
Mentors: Prof. Chen Jiahao   *ShanghaiTech University*

- Mechanical Design and Control of biped robot.
- Design actuators for biped robot.

Projects and Competition

Robomaster   *9.2021-6.2022*
Robot Competition

- Lead and coordinate a group for experimental robot design and development.
- Responsible for mechanical design and routine maintenance.

Inverter Design and Control   *Spring 2023*
Individual Project

- Realize Phase-loop and close-loop control algorithms on Ti's C2000 microcontroller.
- Design related PCB Using Altium Designer.

Bandit Algorithm   *Autumn 2022*
Group Project

- Realize and compare the performance of ϵ-greedy , UCB(upper confidence bound) and TS(Thompson Sampling) algorithms.
- Design more practical cases and adjust algorithms to obtain better performance.

Work and Volunteer Experience

Electric Circuit   *Spring 2023*
Teaching Assistant   *ShanghaiTech University*

- Responsible to course recording, tutorial classes; set questions and answers.

Volunteer Teaching in Yunnan   *Spring 2022*
Volunteer Teacher   *ShanghaiTech University*

- Teaching Physics and Chinese for children in one of Dali's depressed village.
- Continue donating salary of teaching assistant through United Nations Children's Fund.

Awards

Excellent Student	**Top 3%**	*2022*
Outstanding Individual in Social Practice		*2022*
RoboMaster University Championship (Eastern Division)	2nd Prize	*2022*
RoboMaster University Championship (National)	3rd Prize	*2022*
Outstanding Teaching assistant		*2023*
National Undergraduate Electronic Design Contest (Shanghai Division)	2nd Prize	*2023*

Skills and Courses

Programming Skills and Software: C/C++, Python, MATLAB, Simulink, Code Composer Studio, Altuim Designer, Solidworks, AMPL, Julia