

SHUMENG WANG

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EDUCATION BACKGROUND

TU Delft	<i>Delft, the Netherlands</i>	09.2020 - Expected 07.2022
<ul style="list-style-type: none">● M.Sc. in Electrical Power Engineering (Specialization: Power Electronics)● Advisor: Prof. Zian Qin, Thesis domain: GaN Transistors, GaN-Based Power Converters● Related courses: Control System Design (10/10), Electromagnetics (9.5/10), Semiconductor Device Physics (9/10), Power Electronics (9/10), Power Electronic Components (9/10), Advanced Power Electronics (9/10)		
KU Leuven	<i>Leuven, Belgium</i>	09.2018 - 07.2020
<ul style="list-style-type: none">● B.Sc. in Electronics Engineering, Graduated with Cum laude		
Southwest Jiaotong University (SWJTU)	<i>Chengdu, China</i>	09.2016 - 07.2020
<ul style="list-style-type: none">● B.Eng. in Electrical Engineering and Automation (Mao Yisheng Honors College)		

INTERNSHIP EXPERIENCE

ABB	<i>Shenzhen, China</i>	09.2021 - 11.2021
<ul style="list-style-type: none">● Research Intern, Supervisor: Dr. Ken Kuen-Faat Yuen, Mr. Yin Tang, Project domain: Modular Power Inverter● Designed and refined topologies, implement PCB, conduct relevant electrical and thermal tests● Prototypes capable of operating in parallel and three-phase mode, and operating in extreme overload conditions		

RESERCH PROJECTS

TU Delft DCE&S	<i>200kW Three-Phase Inverter</i>	05.2021 - 06.2021
<ul style="list-style-type: none">● Advisor: Prof. Zian Qin● Conducted double-pulse tests to evaluate performances of power diodes and transistors● Designed filter and finished thermal design and control design, reached efficiency of 99% and THD of 3.5%		
TU Delft DCE&S	<i>Components Analysis of Boost Converter</i>	03.2021 - 04.2021
<ul style="list-style-type: none">● Advisor: Prof. Thiago Batista Soeiro● Evaluated performances of Si IGBT and SiC MOSFET, especially on transient behaviors● Evaluated performances and losses of magnetic components and thermal components		
TU Delft DCE&S	<i>Coil Design for Inductive Power Transfer</i>	10.2020 - 11.2020
<ul style="list-style-type: none">● Advisor: Prof. Jianning Dong● Proposed a set of equations calculating parameters of core-free coupling coils in inductive power transfer system		
SWJTU Energy Internet Lab	<i>Multi-Frequency Wireless Power Transfer</i>	07.2019 - 09.2019
<ul style="list-style-type: none">● Advisor: Prof. Ruikun Mai, Prof. Yong Li, Dr. Shunpan Liu● Made an oral literature review, proposed new circuit topologies and made analysis through Simulink simulation		

HONORS & AWARDS

2020.7	Cum laude at KU Leuven
2021.11	AWARD OF EXCELLENCE at ABB

SKILLS & TECHNIQUES

- **Computer skills:**
Circuit Analysis and PCB Design: Multisim, LTspice, MATLAB (Simulink), Altium Designer, Eagle, PLECS
Microcontroller and FPGA Programming: C, Assembly code, Xilinx Vivado
Other Software Skills: C, Java, Python, MySQL, LabVIEW, FEM based on Julia environment
- **Language skills:**
Chinese: Native, English: TOEFL iBT 103