

SHUMENG WANG

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EDUCATION BACKGROUND

Northeastern University	<i>Boston, United States</i>	09.2022 - Expected 08.2027
<ul style="list-style-type: none">● Ph.D. in Electrical Engineering● Advisor: Prof. Bradley Lehman, Prof. Mahshid Amirabadi		
TU Delft	<i>Delft, the Netherlands</i>	09.2020 - 08.2022
<ul style="list-style-type: none">● M.Sc. in Electrical Power Engineering (Track: Power Electronics and Electrical Machines)● Advisor: Prof. Pavol Bauer, Dr. Zian Qin, Ir. Sachin Yadav● Thesis topic: GaN-Based Multi-Active-Bridge Converter with Hot-Swapping Capability, score: 8.5/10● 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)		

MASTER RESEARCH PROJECT

TU Delft DCE&S	<i>Master Thesis Project</i>	12.2021 - 08.2022
<ul style="list-style-type: none">● Converter details: 2.2kW GaN-based four-port Multi-Active-Bridge (MAB) DC/DC converter● Proposed hot-swapping buffer circuit for MAB converter for surge current and surge voltage limiting● Designed adaptive decentralized control strategy for modular hot-swapping active bridges● Designed planar multi-port transformer with PCB winding for minimizing leakage inductance● Designed a GaN-based prototype for high power density		

INTERNSHIP EXPERIENCE

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

HONORS & AWARDS

2021.11	AWARD OF EXCELLENCE at ABB
2020.07	Cum laude at KU Leuven

SKILLS & TECHNIQUES

- **Computer skills:**
Circuit Analysis and PCB Design: PLECS, LTspice, MATLAB (Simulink), Multisim, Altium Designer, Eagle
Finite Element Modelling Analysis (FEM/FEA): Julia, FEMM
Microcontroller and FPGA Programming: C, Assembly code, Xilinx Vivado
Other Software Skills: LaTeX, C, Java, Linux, MySQL, LabVIEW, Python
- **Language skills:**
Chinese: Native
English: TOEFL iBT 100