

Weisheng Ding

CONTACT INFORMATION	3500 Deer Creek Road Palo Alto, CA 94304 United States	Mobile: (240) 485-7803 E-mail: dingweisheng@gmail.com Homepage: http://www.dingws.com
EDUCATION BACKGROUND	University of Maryland, College Park, MD M.S., Department of Electrical and Computer Engineering <ul style="list-style-type: none">• Advisor: Prof. Alireza Khaligh Dalian University of Technology, Dalian, China B.S., Department of Electronic and Information Engineering (Integrated Circuit) <ul style="list-style-type: none">• Advisor: Prof. Dejun Wang	Sep. 2015-May 2017 Sep. 2006-Jun. 2010
WORK EXPERIENCE	Tesla Motors, Palo Alto, CA Electronic Design Engineer	Jun. 2017-Present
	Tesla Motors, Palo Alto, CA Power Electronics Engineer Intern <ul style="list-style-type: none">• Mentor: Satish Thuta• Modeling of parasitic elements to successfully locate the root cause of a failure in the inverter project for industrial and residential energy storage systems.• Research and design of the circuit for SiC module power loss characterization.	May 2016-Aug. 2016
	Shanghai RLsemi Co., Ltd. (Startup), Shanghai, China Co-founder, Senior PMIC Application Engineer <ul style="list-style-type: none">• Led the R&D process of developing the Power Management IC for AC-DC charger and LED lighting.• Designed and prototyped application solution kits.• Defined and implemented single stage PFC circuit for LED lighting.	2012-2014
	Sharp Electronics R&D, Nanjing, China Power Electronics Engineer <ul style="list-style-type: none">• Performed design evaluation for the LCD TV power conversion system.	2010-2011
RESEARCH EXPERIENCE	University of Maryland, College Park, MD Research Assistant, Maryland Power Electronics Laboratory	2014-2016
	Project: <i>Integrated Bi-directional Onboard Charger for Plug-in Electric Vehicles</i> <ul style="list-style-type: none">• Designed, built and tested a dual-output 3.3kW onboard charger prototype with the electromagnetically integrated transformer.	
	Project: <i>Power Conversion Prototype for Aircraft Applications</i> <ul style="list-style-type: none">• Designed, built and tested a SiC-based highly-efficient and ultra-compact three phase 5kW/10kW AC-DC prototype for next generation of the avionic system.	
	Project: <i>MHz Power Factor Correction</i> <ul style="list-style-type: none">• Investigated the performance of an MHz PFC based on magnetic components design and wide bandgap semiconductor.	

SKILLS

Circuit Simulation: Simetrix/Simplis, PSIM, PSpice
Schematic&PCB Design: Altium Designer, PADS
Test and Analysis: Common Testing Equipment, EMI

AWARDS

3rd Prize, The Allegheny Region Cleantech University Prize Mar. 2017
ASML Prize (Only 5 Students in Undergraduate) Sep. 2007
2nd Prize, Dalian University of Technology Academic Sep. 2007

PUBLICATIONS

Ayan Mallik, **Weisheng Ding**, Chuan Shi; Alireza Khaligh, *Input Voltage Sensorless Duty Compensation Control for a Three-Phase Boost PFC Converter*, IEEE Trans. on Industry Applications, vol.PP, no.99, pp.1-1, November 2016.

Ayan Mallik, **Weisheng Ding**, Alireza Khaligh, *A comprehensive Design Approach to an EMI Filter for a 6-kW Three-Phase Boost Power Factor Correction Rectifier in Avionics Vehicular Systems*, IEEE Trans. on Vehicular Technology, vol.PP, no.99, pp.1-1, 0018-9545, July 2016.

Yichao Tang, **Weisheng Ding**, Alireza Khaligh, *A Bridgeless Totem-Pole Interleaved PFC Converter for Plug-in Electric Vehicles*, APEC, 2016.

Ayan Mallik, **Weisheng Ding**, Chuan Shi, Alireza Khaligh, *Modeling and Control of a 5kW Three-Phase Boost Power Factor Correction Rectifier for Regulated Transformer Rectifier Units (RTRU)*, submitted to IEEE Transactions on Power Electronics.

Yichao Tang, **Weisheng Ding**, Alireza Khaligh, *An Integrated Dual-Output Isolated Converter for Plug-In Electric Vehicles*, submitted to IEEE Transactions on Power Electronics.