

Resume

Name: Xi Chen (Edison Chen), Ph.D.

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Work Experience:

- 2019.10.21—now, MTS, Applications, in Maxim Integrated Product Inc. (160 Rio Robles, San Jose, CA, USA)
 - Participate and contribute to the definition of new power management products, along with Business Management and Design teams.
 - Provide recommendations on power supply topology, control algorithm, architecture, package options and feature set for new products, in order to meet customer needs and differentiate MAXIM with the competitors.
 - Support customer applications and products development for Telecommunication Power market, including Multiphase, PoL, Isolated Power, Hotswap etc.
 - Direct contact with customers and our field application engineering staff for creating design solutions and troubleshooting system design problems.
 - Create new part verification test plan, guide application team to road test, data analysis, and test summary.
 - Write product datasheet with applications section, applications note, design articles and demo board manuals with all text, graphs and diagrams.

Profile:

- Highly motivated, team spirited professional with 7 years' experience in research and development in the area of power electronics.
- Strong background in electronics, switch-mode power converters, resonant converters, power management, magnetics design and control design.
- Modelling and simulation experience with various dc/dc power converters.
- Extensive hands-on experience in the design, analysis and implementation of switch-mode power converters and resonant converters.
- Understanding of control algorithm implementation using microcontrollers.
- Strong technical and analytical skills in troubleshooting experimental prototypes.
- Outstanding teamwork, communication, and project planning skills.

Technical Skills:

- Simulation software:
Simplis, LTspice, PSIM, Plexim, Simulink.
- Programming language and software:
C language, Matlab, STM32CubeMX, ARM Keil, Code Composer Studio,
- PCB layout software:
Cadence, Altium Designer, Eagle, KiCAD
- Other software:
Ansys Maxwell, AutoCAD, Visio, Microsoft Office, etc.

Education:

- 2014.08—2019.08, Ph.D. in Electrical Engineering, Department of Computer Science and Electrical Engineering, University of Central Florida, Orlando, FL, USA. **GPA: 3.98/4.00**

- 2014.08—2016.12, M.S. in Electrical Engineering, Department of Computer Science and Electrical Engineering, University of Central Florida, Orlando, FL, USA. **GPA: 3.98/4.00**
- 2012.07—2014.06, B.E. in Photovoltaic and Solar Energy, School of Photovoltaic and Renewable Energy Engineering, College of Engineering, University of New South Wales, Sydney, NSW, Australia. **Honor Degree**
- 2010.09—2014.06, B.S. in Applied Physics, College of Science, South China University of Technology, Guangzhou, Guangdong, People's Republic of China. **GPA: 3.45/4.00**

Other Education:

- 2018.01—2018.12, Graduate Certificate in Electric Drivetrain Technology in Vehicle Power Electronics, Department of Electrical, Computer and Energy Engineering, University of Colorado Boulder, Boulder, CO, USA. **GPA: 3.85/4.00**
- 2017.01—2017.12, Graduate Certificate in Electric Drivetrain Technology in Battery Control, Department of Electrical and Computer Engineering, University of Colorado, Colorado Springs, Colorado Springs, CO, USA. **GPA: 4.00/4.00**
- 2018.02—2018.07, online certificate for “Microcontrollers and the C Programming Language” from Udemy, Valparaiso University.

Selected Honors and Publications:

- 2014—2019 Graduate Research Assistantship and/or Graduate Teaching Assistantship from UCF
- 2018—2019 Gerald R. Langston Scholarship from UCF
- 2017 & 2018 Graduate Presentation Fellowship from UCF
- 2017—2018 Bridge Funding Award from UCF
- 22 technical papers published or accepted by various IEEE Transactions and Conferences