Qi, Chensen
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Education

Zhejiang University, Hangzhou, Zhejiang **2012.08- 2016.06**
- Bachelor of Science in Engineering
- Major in Electrical Engineering
- **Overall GPA: 3.85/4.0**

Virginia Tech, Blacksburg, VA **2018.01- Now**
- Master of Science in Engineering
- Doctoral of Science in Engineering
- Major in Electrical Engineering
- **Overall GPA: 3.96/4.0**

Research Experiences

Virginia Tech Power and Energy Center (PEC) **2018.01- 2021.06**
Research Assistantship
dAta-driven modelinG preservinG contRollable dEr for outaGe mAnagemenT and rEsiliency (AGGREGATE) Project
- Designed Outage Management System based on the Advanced Meter Infrastructure for the distribution system
- Designed Feeder Restoration Module with Distributed Energy Resources (DERs) for the distribution system

Transactive Energy for EV Charging Management
- Develop protocols for home appliance in the scope of Transactive Energy
- Designed a blockchain-based Electric Vehicle Charging Management System: EV-TRADing Energy & Services (EV-TRADES)
- Proposed the concept of Transactive Energy for EVs providing ancillary service in the power grid

Washington State University Energy System Innovation Center (ESIC) **2016.08- 2018.01**
Research Assistantship
Advanced Distribution Management System (ADMS) Project
- Developed microgrid control and distribution system partition algorithm
- Proposed the cyber-security metric of remote terminal units at the distribution system level

Zhejiang University Lab of High-Performance Computing in Power System **2014.07-2016.07**
Research Assistantship
High-performance Computation of Power System Project
- Designed a Distributed Power System Analysis Package
- Modeled the converters in HVDC transmission

Zhejiang University Lab of Electronic Innovation **2015.04-2016.07**
- Led the group and won national awards in China for Electronic Design of Smart Switches, Smart Socket, Wind Pendulums, and High-Frequency Signal Generator
- Designed high-performance PID controller for Hoverboards and Quadcopters
- Developed a digital DC power and functional generator

Publication

- C. Qi, C. -C. Liu, X. Lu, L, Yu, and M. Degner, "Transactive Energy for EV Owners and Aggregators: Mechanism and Algorithms," *IEEE Transactions on Sustainable Energy*, (accepted) DOI: 10.1109/TSTE.2023.3253162

- C. Qi and C. -C. Liu, “Integrated Outage Management with Feeder Restoration for Distribution Systems With DERs,” *IEEE Access*, vol. 9, pp. 112978-112993, 2021
- V. Venkataramanan, C. Qi, A. M. Annaswamy, C. -C. Liu and A. K. Srivastava, "A Two-Step Restoration Scheme with DER Controllability for Resilient Distribution Systems," *2021 IEEE Industry Applications Society Annual Meeting (IAS)*, 2021, pp. 1-7

Honors

Pratt Scholarship in Virginia Tech	**2021**
The National Electronic Design Contest Second Class Prize	**2015**
The Provincial Electronic Design Contest First Class Prize	**2015**
The Provincial Physics Innovation Competition Third Class Prize	**2013**
Zhejiang University Electronic Design Contest First Class Prize	**2014**

Skill

- Proficient in (Programming Language): C, Python, VHDL, JavaScript, Basic, Pascal, Assembly Language, Solidity Language, SQL
- Skillful in (Software) MATLAB, OpenDSS, GridLAB-D, WindMil, Simulink, MatrikonOPC, MySQL, Solidity, VMware, LabVIEW, PSS/E

Social Activity

Power and Energy Center Annual Conference of Virginie Tech	**Student Co-Chair**
IEEE Access	**Reviewer**
Science & Technology Explorer Club of Zhejiang University	**Chair**
Students’ Union of the College of Electrical Engineering	**Vice-Chair**