Ce Zheng

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EDUCATION

Sep. 2020-present	**The University of North Carolina at Charlotte**, NC, the USA *Ph.D. in Electrical Engineering.* Research interests: Deep learning, Computer Vision
Sep. 2017-Aug. 2019	**Tufts University**, MA, the USA *Master of Science in Electrical Engineering.* Main courses: Digital Signal Processing; Machine Learning; Algorithm; Medical Imaging; Communication Systems; Real Analysis, etc.
Sep. 2014-May. 2016	**University of Bridgeport**, CT, the USA *Bachelor of Science in Electrical Engineering.* Main courses: Power Electronics; Digital Design; Digital VLSI; Programmable Logic Control; Intro Nanotechnology; Controls; Digital Signal Processing, etc.
Sep. 2012-June. 2016	**Wuhan University of Science and Technology**, Wuhan, China *Bachelor of Science in Electrical Engineering.* Main courses: Calculous; Differential Equations; Linear Algebra; Probability and Mathematical Statistics; principles of physics; Signals and Systems, etc.

SPECIAL SKILLS

Programming: Python, PyTorch, MATLAB, C Programming Language, Verilog, VHDL

Tools: LaTeX, PSpice, COMSOL, ANSYS, Microsoft Office

RESEARCH EXPERIENCE

Nov. 2019-May.2020	**LiDAR Odometry project**, with Prof Ziming Zhang at WP. **C. Zheng**, Y. Lyu, M. Li, Z.Zhang, "LodoNet: A Deep Neural Network with 2D keypoint Matching for 3D LiDAR Odometry Estimation." Accepted by ACM Multimedia 2020 as poster paper.
Aug. 2019	**Master thesis**: Reliable Biometric Estimation from Colorimetric Data. Summary: Predict chemical information such as pH, temperature, lactate, ammonium through regression models after image processing of color-sensitive biosensors.
Feb. 2018-May.2019	**Color sensor detection project**, with Prof Eric Miller and Prof Shuchin Aeron. Study: Image processing, Machine learning, Light calibration, Optimal Transport theory.

Apr. 2016	Essa, L. Matheus, **C. Zheng**, X. Xiong, "Transparent Touch Screen for Next-generation Interactive Display" Accepted for poster presentation in ASEE Northeast-Section Conference, University of Rhode Island. 2016
Apr. 2016	P. Wu, **C. Zheng**, X. Xiong, P. Patra, J. Hu, "Biochip with Graphene-based Nanosensor for Non-invasive Glucose Sensing". Accepted for poster presentation in ASEE Northeast-Section Conference, University of Rhode Island. 2016.
Oct. 2015	**C. Zheng**, X. Xiong, J. Hu, "COMSOL Simulation of a Dual-axis MEMS with Accelerometer T-shape Beams" Accepted for paper presentation in COMSOL Conference, Boston 2015
Apr. 2015	**C. Zheng**, X. Xiong, "Dual-axis MEMS Accelerometer with T-shape Beams" Accepted for poster presentation in ASEE Northeast-Section Conference, Northeastern University, 2015

WORK AND INTERNSHIPS

Oct. 2019 - May. 2020	**Worcester Polytechnic Institute,** Research Assistant in Department of Electrical Engineering in Wocester, MA

- ★ Work with Prof Ziming Zhang, conduct research about deep learning and computer vision.
- ★ Focus on Autonomous driving Lidar Odometry using deep learning methods.

Jan. 2019 - May. 2019	**Tufts University,** Teaching Assistant in Department of Electrical Engineering in Medford, MA

- ★ Assisted Electrical Engineering Department and professor Jeffrey Hopwood with lab project and homework grading, working collaboratively to complete all tasks and assignments on time.
- ★ Acted as a mentor to answer questions about homework and lab project.
- ★ Prepared course materials and lab tutorials.

Jun. 2016 - Jan.2017	**Double Tree Systems Inc,** Transformer Field Service Technician in Salem, MA

- ★ Provided customers with Transformer service in Salem Harbor Energy Center, MA, receiving high customer satisfaction ratings consistently.
- ★ Responsible for coordinating tasks and communicating with our engineer, to install and test solutions.
- ★ Demonstrated leadership in crew and site management, coaching and monitoring the team through the installation of six Transformers. (Max Power 245MVA, High Voltage 115KV, Low Voltage 18KV).

- ★ Install, train and provide technical knowledge and troubleshooting

Jan. 2016 - **University of Bridgeport,**

May. 2016 Teaching Assistant in Department of Electrical Engineering in Bridgeport, CT

- ★ Assisted Electrical Engineering Department and professors with paperwork and research papers, working collaboratively to complete all tasks and assignments on time.
- ★ Acted as a mentor to struggling students to help them grasp the course material.
- ★ Prepared course materials and wrote lab tutorials.

HONORS AND AWARDS

- Eta Kappa Nu (HKN) member, Tufts University

- The School of Engineering Reed Award, 2016 in University of Bridgeport

- Magna Cum Laude Honor, 2016 in University of Bridgeport

- Academic Accomplishment Award, 2016 in University of Bridgeport

- Services Award, 2016 in University of Bridgeport

- Academic Merit Scholarship ($11,000) from University of Bridgeport.

- First-class scholarship from Wuhan University of Science and Technology.

- Student advisor for 2013 grade freshman student during Fall 2013 Semester and 2014 Spring Semester in Wuhan University of Science and Technology.

- Vice President of 2012 Grade Student Union of Engineering School during Fall 2012 Semester and 2013 Spring Semester in Wuhan University of Science and Technology.

- GPA rank 5th in Electrical Engineering Department of Wuhan University of Science and Technology in 2013 Fall Semester.