Connor H. McCurley

cmccurley@ufl.edu
405-808-3179
2337 SW Archer Road, Apt. 1053, Gainesville, FL 32608
LinkedIn: https://www.linkedin.com/in/mccurleyconnor

Summary of Qualifications:

- Pursuing Ph.D. in Electrical Engineering: Concentration in Machine Learning and Pattern Recognition
- Obtained industry experience through internships at Oklahoma Gas & Electric
- Experience in Machine Learning methods applied to object detection and sensor fusion

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Education:

Ph.D. Student in Electrical Engineering — In Progress
University of Florida (A.B.E.T)
Concentration in Machine Learning and Pattern Recognition

Bachelor of Science in Electrical Engineering — May 2017
Oklahoma State University (A.B.E.T) — **Cum Laude**
Concentration in Communications, Controls, and Signal Processing
Minor in Mathematics

Missouri University of Science and Technology (A.B.E.T) — No degree

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Research Experience:

Graduate Research Assistant, Machine Learning and Sensing Lab — Aug 2017-Present
University of Florida- Gainesville

- Collaborated with multiple universities and companies to achieve research objectives
- Performed experimental and theoretical studies in hazard detection
- Worked to develop algorithms employed on US Army hand-held metal detectors
- Coded Machine Learning algorithms in Matlab and Python
- Ran experiments to compare machine learning approaches
- Communicated effectively with experienced researchers and Army representatives
- Shared knowledge of Machine Learning through experiences in supervised teaching

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Professional Experience:

System Protection and Controls Engineering Intern — May 2016-Aug 2016
Oklahoma Gas & Electric

- Completed over 20 System Protection designs to be implemented in the field
- Experience with protective relaying, breakers, load tap changers, integrated volt-VAR controllers, and other power circuit protection technologies
- Responsible for interpreting and drafting CAD drawings of protection and control schematics
- Aided in design and calculations regarding solar shading, inverters, panels, layout, and land selection for 25 MW solar farm
- Connected SCADA communication network for remote access to protective equipment
- Utilized strong communication skills for final project presentation to executives and co-workers
- Adhered to OG&E, federal, and international standards for safety practices
- Managed multiple projects with shifting priorities

Distribution Engineering Intern — May 2015-Aug 2015
Oklahoma Gas & Electric

- Completed over 15 distribution designs totaling $690,000
- Experience in identification and selection of components to meet desired goals
- Determined distribution designs based on cost, reliability, and maintainability
- Produced work in a timely manner
- Utilized communication and teamwork skills when collaborating with fellow employees
- Gathered on-site measurements which were used to supply recommended designs
- Worked closely with senior engineers and technicians
- Utilized OG&E's computer based design software to produce detailed distribution designs
- Met with customers to discuss their needs and design possibilities
- Participated and gave input in the Technology Development and Implementation team
- Demonstrated adherence to company practices, policies, and procedures
- Completed final project presentation to co-workers and executives

Teaching Experience:

Vice President of Scholarship
Sigma Phi Epsilon Fraternity May 2014- Dec 2014

- Developed and implemented Sigma Accelerator Academic Program for new members
- Managed academic support system
- Created 12 practices tests in Calculus I, Calculus II, Trigonometry, College Algebra, and Chemistry
- Lead practice tests, reviews, and tutoring sessions for new members
- Guided fraternity to place first in grades among 22 fraternities and sororities
- Contributed to winning the highest award from Sigma Phi Epsilon Nationals

Computer Skills:

Hardware: Arduino Microcontroller, Raspberry Pi
Languages: Matlab, C++, Java, Python
Software: ArcFM, Deuces, SAP, Schematic Design (Multisim Circuit Design Suite, Quartus II, Modelsim), MATLAB (including Simulink), AutoCAD, Microstation, Microsoft Office, Eclipse, Goggle Apps, Outlook
Systems: Windows, Mac OS, UNIX, Linux, ROS (Robot Operating System)

Honors & Activities

University of Florida – Electrical and Computer Engineering Graduate Student of the Week, October 2018
University of Florida - **Graduate School Preeminence Award, Fall 2017**
Institute of Electrical and Electronic Engineers
Oklahoma State University- Honors College
Tau Beta Pi – Engineering Honor Society
Tau Sigma – Honor Society
President's Honor Roll – Spring 2014, Spring 2016
Dean's Honor Roll – Fall 2013, Fall 2014, Spring 2015, Fall 2015
American Legion Certificate of School Award for Leadership and Citizenship
Sigma Phi Epsilon Fraternity- *Vice President of Scholarship, finance committee, risk management, wireless network chair, study proctor*
IEEE Robotics Team
Missouri S&T – IEEE Electronics Workshop Team, PRO Day Mentor, Fly-in Mentor

Service:

GatorTRAX

- Weekly youth mentor promoting STEM participation and outreach

The Leukemia and Lymphoma Society

- Annual runner in the Run Lucky 5k

Oklahoma City National Memorial

- Annual runner in the Oklahoma City Memorial Marathon

Junior Achievement of America

- Packed informational kits to be used in elementary school classrooms
- Saved the organization over $1,200

Regional Food Bank of Oklahoma

- Packed over 300 boxes containing food, clothes, and hygiene products
- Boxes were distributed to local families in need