

JULIA LANIER

jlanier@crimson.ua.edu • (678) 763-1826 • www.julialanier.com

EDUCATION

The University of Michigan <i>PhD in Computer Science and Engineering College of Engineering</i> <ul style="list-style-type: none">• Research focus in security and privacy with Dr. Kevin Fu	Ann Arbor, MI <i>Present</i>
The University of Alabama <i>Bachelor of Science in Electrical Engineering College of Engineering</i> <ul style="list-style-type: none">• Honors College, GPA: 3.87 / 4.00• Computer Engineering Concentration, Computer Science Minor, Mathematics Minor	Tuscaloosa, AL <i>May 2019</i>

PUBLICATIONS

An Initial Implementation of a Direct Digital Synthesizer Module for Radar Applications	2018
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EXPERIENCE & PROJECTS

The University of Alabama <i>Undergraduate Researcher ECE Department</i> <ul style="list-style-type: none">• Developed software to create an autonomous kayak for ocean monitoring• Worked in a Linux environment using C in the terminal• Tested the kayak at various stages of development for naval capabilities in Lake Tuscaloosa• Coordinated with the mechanical team to integrate the hardware and software as well as ensure functionality	Tuscaloosa, AL <i>August 2017-January 2018</i>
Revere Control Systems <i>Co-op Engineering Student</i> <ul style="list-style-type: none">• Designed, built, and tested instrumentation and control systems including communications, SCADA, and motor protection and control for municipal, OEM, and industrial applications• Designed circuits based off network diagrams and process and instrumentation diagrams• Troubleshoot and programmed PLCs and HMIs using C and ladder logic• Provided on-site startup and service• Ensured compliance with customer and government regulations such as UL and CSA certifications, NEC and IEC standards, and EU directives• Prepared panels for witness factory acceptance tests• Created a network cabinet and routed ethernet and fiber cables to local offices	Birmingham, AL <i>August 2016 – May 2018 (3 Terms)</i>

LEADERSHIP AND MEMBERSHIP

• Tau Beta Pi Engineering Honor Society	2018 - 2019
• Eta Kappa Nu Honor Society of Electrical and Computer Engineering President, Web Officer	2016 - 2019
• EcoCar 3 Electrical Subteam	2016 - 2017
• Society of Women Engineers Newsletter Committee Head	2015 - 2019
• Alpha Kappa Psi Professional Business Fraternity Executive Committee Secretary, Secretary Chair, Judiciary Committee Justice, Recruitment Team	2015 - 2018
• Institute of Electrical and Electronics Engineers	2014 - 2019
• Alpha Delta Pi Finance Vice President, Finance Assistant, Homecoming Committee	2014 - 2018

HONORS AND AWARDS

Eta Kappa Nu Outstanding Senior Award	2017 - 2018
Fred R. Maxwell Jr. Award	2016 - 2017
Collegiate Scholarship	May 2014
Dean's Engineering Excellence Scholarship	May 2014

SKILLS AND CERTIFICATIONS

Languages - Proficient in C, Experience in C++, VHDL, Verilog, MIPS Assembly, PIC Assembly, Java	
Software – RSLogix, Rockwell Automation Software, LTSpice, PSpice, MPLAB, Quartus, ModelSim	
Forklift Operation Certification	June 17, 2017
CPR Certification	December 1, 2016
OSHA Certification	August 19, 2016
Basic IRS Certification	January 26, 2016