Jonathan Platt

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Education

Bachelor of Science in Computer Engineering, May 2021	**The University of Alabama, Tuscaloosa, AL**
Major: Computer Engineering, Math	**Minors**: Randall Research Scholars, Computer Science
GPA: 4.0/4.0	
Master of Science in Electrical Engineering, May 2022	**The University of Alabama, Tuscaloosa, AL**
GPA: 4.0/4.0	

Patents, Publications, & Presentations

"Method and system for direction finding and channel sounding using pseudo-doppler antenna array" – US Patent No. US20210011108A1 – Date of Patent: Jan 14, 2021.

"Developing a Direction-Finding System and Channel Sounder using a Pseudo-Doppler Antenna Array," in *IEEE Antennas and Propagation Magazine*, Volume 61, Number 4, pp. 84-89, August 2019.

"Evaluation on Pseudo-Doppler Antenna Array using Software-Defined-Radio," in *2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting,* Atlanta, GA, USA, 2019, pp. 1835-1836.

Work Experience

AT&T   **Middletown, NJ**
Software Engineering Intern   **June – August 2021**
- Worked on agile team as a developer creating an original, responsive web application from idea to MVP in 6 weeks
- Delivered critical vulnerability fixes in Open Network Automation Project (ONAP) decreasing attack surface by 30%
- Developed and delivered a containerized network service simulator for ONAP resulting in increased code coverage

Magnetic Materials and Device Lab   **The University of Alabama, Tuscaloosa, AL**
Undergraduate Research Assistant   **November 2017 – May 2021**
- Participated in 2018 Antenna Propagation Society (APS) student design contest by programming the digital signal processing for a novel radiolocation system using open-source software earning 2nd place among 6 international finalist teams
- Researched an original low loss and lightweight composite antenna substrate using ferrite and plastic resin
- Developed cutting edge simulator for quantitatively comparing ground penetrating radar modulation schemes
- Designed, assembled, and programmed an FPGA based radar system using inexpensive and commercially available parts

United States Air Force Civilian Service   **Warner Robins, GA**
Electronics Reverse Engineering Intern   **May – July 2020**
- Reverse engineered circuit board design of 1970s era aircraft with limited documentation on accelerated 3-month timeline
- Submitted technical data package to client including schematics, test procedure, and repair plan 1 week ahead of schedule
- Performed failure analysis on two 50+ component boards by identifying faulty components on par with experienced technician

Church & Dwight   **Princeton, NJ**
Product Engineering Intern   **May – August 2019**
- Developed operating procedure for new 3D printer resulting in a 50% increase in prototyping capacity
- Improved embedded system software for use in new consumer product line, accelerating project timeline from 5 to 4 months
- Designed, created, and used test fixtures to evaluate manufactured product consistency and quality in-house saving hundreds of dollars over a three-week period compared to contracted work

Skills & Certifications

Computer Aided Design Software: Altium, Autodesk Inventor, Cura, OrCAD PSpice, Repetier, Simplify3D, SolidWorks
Software Engineering: C, C++, C#, Fortran, Git, Java, JavaScript, Linux, MATLAB, MIPS Assembly, Python, SQL, VHDL, Verilog
RF Engineering: Anechoic Chamber, ANSYS HFSS, Impedance Analyzer, Software Defined Radio, VNA, VSM
Other: 3D Printing, Machining, Project Management, Problem Solving, ScanCAD, Inactive Security Clearance

Leadership & Extracurriculars

Pi Mu Epsilon (Mathematics National Honor Society), Member, 04/2020 - Present
Institute of Electronical and Electronics Engineers (IEEE), President, 04/2018 - Present
Alabama Astrobotics, Electrical Team Member, 11/2017 - Present
Million Dollar Band, Member, 08/2017 - 04/2021

Honors

University of Alabama Undergraduate Engineering Student of the Year, Engineering Council of Birmingham, 02/2021
Henry Copeland Scholarship, Randall Research Scholars, 06/2020
CES Outstanding Senior - Computer Engineering, Electrical and Computer Engineering Department, 04/2019
Outstanding Undergraduate Research Award, Electrical and Computer Engineering Department, 04/2019
Eagle Scout, Boy Scouts of America, 07/2017