

# Silas M. Zehnder

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<b>EDUCATION</b>	University of Michigan College of Engineering, Ann Arbor, MI <i>Bachelor of Science in Engineering, Computer Engineering</i> GPA: 3.53 / 4.00 Relevant Coursework: Data Structures and Algorithms, Operating Systems, Advanced Embedded Systems, Computer Networks, Web Systems	May 2019
<b>EXPERIENCE</b>	<b>RAYTHEON</b> <i>Software Engineer I</i> <ul style="list-style-type: none"><li>Awaiting access for assigned program while maintaining and developing software skills</li></ul> <b>DYNETICS</b> <i>Engineer Trainee I, RF and Electronic Warfare Solutions</i> <ul style="list-style-type: none"><li>Worked on a team of 10 to emulate a PowerPC processor in C++ and Python; emulator will be used to run simulations and find exploits in weapon systems</li><li>Researched and designed the memory management unit for the emulator; generated documentation outlining design decisions and action items; led a 60-minute design meeting to confirm and discuss these design decisions with the team</li><li>Co-led multiple meetings relating to internal interrupts and how they should be implemented in the system</li><li>Implemented and rigorously tested PowerPC opcodes, ranging from memory access instructions to floating-point arithmetic instructions</li><li>Worked collaboratively with the team to accomplish tasks using the Scrum Agile Software Development system</li><li>Presented summer projects to department executives, ran an interactive demo of the emulator successfully performing an MD5 hashing algorithm</li></ul> <b>NOVACOAST</b> <i>Security Operations Center Analyst</i> <ul style="list-style-type: none"><li>Used multiple SIEM systems to monitor, detect, analyze, and resolve security incidents affecting clients in real-time to ensure integrity of systems and data</li><li>Attended to clients' needs by writing informative and concise security reports, escalated severe compromises by calling the client to advise them of the situation</li><li>Decreased false positives across all clients by tuning AI Engine Rules in the LogRhythm environment, thereby increasing productivity of the 25 person team</li><li>Worked full time during the summer, 20 hours a week during school</li></ul> <b>MICHIGAN HYBRID RACING TEAM</b> <i>Power Distribution Module Team Member</i> <ul style="list-style-type: none"><li>Collaborated with a group of five students to design, prototype, test, and implement the power distribution module in the 2016 Michigan Hybrid Racing car</li><li>Employed iterative design to reduce the size of the module's printed circuit board by 40%, ultimately reducing cost of the board</li><li>Researched and tested electrical components for the circuit board to ensure an efficient and safe experience for the driver</li></ul>	June 2019 - Present Aurora, CO May 2018 - August 2018 Huntsville, AL May 2017 - March 2018 Ann Arbor, MI Dec 2015 - Apr 2016 Ann Arbor, MI
<b>SKILLS</b>	<i>Certifications:</i> CompTIA Security+ <i>Languages:</i> C/C++, Python (Django, Flask), Javascript (React), Java, MATLAB <i>Software:</i> Microsoft Office, AWS (EC2), SQLite, Git, Vim, JIRA, LogRhythm <i>Operating Systems:</i> Linux (Arch, Gentoo, Ubuntu, RHEL), Mac OS, Windows	
<b>PROJECTS</b>	<b>THE BREWHOB, SENIOR MULTIDISCIPLINARY DESIGN PROJECT</b> <ul style="list-style-type: none"><li>Created a retrofittable espresso machine control board which allows coffee shops to upgrade their existing machines painlessly</li><li>Prototyped and completed a working product within one semester in a group of 5 students with unique experiences and skillsets</li><li>Personal contributions included network socket programming, embedded software programming, PCB component design, and documentation</li></ul>	