

Silas M. Zehnder

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EDUCATION	University of Michigan College of Engineering, Ann Arbor, MI <i>Bachelor of Science in Engineering, Computer Engineering</i> GPA: 3.53 / 4.00 Accolades: Magna Cum Laude, University Honors, Dean's List	May 2019
EXPERIENCE	<div><div>DYNETICS</div><div>May 2018 - August 2018</div><div>Engineer Trainee I, RF and Electronic Warfare Solutions</div><div>Huntsville, AL</div><ul style="list-style-type: none">• 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• 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• Co-led multiple meetings relating to internal interrupts and how they should be implemented in the system• Implemented and rigorously tested PowerPC opcodes, ranging from memory access instructions to floating-point arithmetic instructions• Worked collaboratively with the team to accomplish tasks using the Scrum Agile Software Development system• Presented summer projects to department executives, ran an interactive demo of the emulator successfully performing an MD5 hashing algorithm</div> <div><div>NOVACOAST</div><div>May 2017 - March 2018</div><div>Security Operations Center Analyst</div><div>Ann Arbor, MI</div><ul style="list-style-type: none">• Used multiple SIEM systems to monitor, detect, analyze, and resolve security incidents affecting clients in real-time to ensure integrity of systems and data• Attended to clients' needs by writing informative and concise security reports, escalated severe compromises by calling the client to advise them of the situation• Decreased false positives across all clients by tuning AI Engine Rules in the LogRhythm environment, thereby increasing productivity of the 25 person team• Worked full time during the summer, 20 hours a week during school</div> <div><div>MICHIGAN HYBRID RACING TEAM</div><div>Dec 2015 - Apr 2016</div><div>Power Distribution Module Team Member</div><div>Ann Arbor, MI</div><ul style="list-style-type: none">• Collaborated with a group of five students to design, prototype, test, and implement the power distribution module in the 2016 Michigan Hybrid Racing car• Employed iterative design to reduce the size of the module's printed circuit board by 40%, ultimately reducing cost of the board• Researched and tested electrical components for the circuit board to ensure an efficient and safe experience for the driver</div>	
SKILLS	<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 (including Arch and Gentoo experience), Mac OS, Windows	
PROJECTS	<div>THE BREWHOB, SENIOR MULTIDISCIPLINARY DESIGN PROJECT</div> <ul style="list-style-type: none">• Created a retrofittable espresso machine control board which allows coffee shops to upgrade their existing machines painlessly• Prototyped and completed a working product within one semester in a group of 5 students with unique experiences and skillsets• Personal contributions included network socket programming, embedded software programming, PCB component design, and documentation	