

Lucas Ross

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Education	University of Michigan , Ann Arbor, MI Bachelors of Science in Computer Science Engineering Minor in Mathematics, Minor in Physics GPA: 3.95 / 4.00	<i>May 2018</i>
Computer Skills	Languages: C/C++, Matlab, Python Operating Systems: Windows, Linux, UNIX Tools: Git/GitHub, GDB, Valgrind Notable Projects: <ul style="list-style-type: none">- C++ travelling salesman algorithm using branch and bound- C++ text file compression algorithm using Hilbert Curve- Python modeling of physical systems (e.g. gravitational forces and motion of a 3 star system)- Matlab snare drum music transcriber and programmable metronome Major Coursework: Machine Learning, Cryptography, Data Structures and Algorithms, Computer Architecture Minor Coursework: Abstract Algebra, Linear Algebra, Discrete Math, Calculus I–IV, Physics I–III	
Honors and Awards	Scott Ludwig Alumni Drumline Scholarship Recipient <ul style="list-style-type: none">- Awarded for contributions as a leader in the Marching Band James B. Angell Scholar <ul style="list-style-type: none">- Awarded to students who received all A's 5 consecutive semesters William J. Branstrom Freshman Prize <ul style="list-style-type: none">- Awarded to freshmen students in the top 5% of their school/college class	<i>Sep 2016</i> <i>Mar 2016</i> <i>Mar 2015</i>
Work Experience	Computer Science Intern AutonomousSafety LLC, Ann Arbor, MI <ul style="list-style-type: none">- Startup company specializing in autonomous UAV systems for first responders- Programmed interface between chemical sensor and Raspberry Pi computer (C++) and real-time processing of sensor data (C++) to deliver sensor functionality- Programmed real-time display of data on GUI (Matlab) for sensor integration development and testing- Assisted team in design of radioactive source reconstruction algorithm for autonomous flight applications- Interviewed first responders and hazmat workers to determine product-market fit	<i>May 2016 – Present</i>
Additional Experience	Section Leader of the Michigan Marching Band Drumline <ul style="list-style-type: none">- Lead drumline in a minimum of 3 hours daily rehearsal during the week- Collaborated with staff members, full ensemble, drumline, and snare-line- Learned and performed pregame, halftime, and postgame shows for all home and select away football games- Earned Scott Ludwig Alumni Drumline Scholarship for leadership contributions Michigan Aeronautical Science Association (MASA) <ul style="list-style-type: none">- Engineering design team focusing in hybrid propulsion technologies and composite structures, culminating in rocket launches at yearly Intercollegiate Rocket Engineering Competition (IREC)- Designed airframe structures using Solidworks CAD program- Helped manufacture and assemble airframe parts in metal machining shop- Worked in large (20-30) and small (3-6) groups, dividing tasks to achieve goals	<i>Dec 2016 – Present</i> <i>Sep 2014 – May 2016</i>