

HENRY ELLIS

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EDUCATION	UNIVERSITY OF MICHIGAN College of Engineering Bachelors of Science – Computer Science <ul style="list-style-type: none">• GPA: 3.92/4.00• Current Coursework: Data Structures and Algorithms (281), Introduction to Computer Organization (370), Linear Algebra (214)• Past Coursework: Discrete Math (203), Introduction to Statistics and Data Analysis (250), and Introduction to Differential Equations (216).• Jean Fairfax Scholarship recipient• Dean's List (Fall 2015, Winter 2016)	Ann Arbor, MI December 2018
LANGUAGES	Proficient in: C++, Java (Android), C Some experience with: Python, Matlab, HTML, JavaScript, PHP, R	
EXPERIENCE	QUALCOMM Software Engineering Intern – Early Identification Program <ul style="list-style-type: none">• Automated a framework used to test Image Signal Processing and Picture Quality• Added support to test new Image Reprocessing Framework introduced in Android API 23• Integrated new Android Camera2 API tests into existing Camera1 test suite• Worked on barebones Android Camera application to test feature functionality• Developed algorithms to save YUV_420 Images, and worked to convert them to more commonly used formats such as JPEG and RAW• Updated stress tests from using deprecated Camera1 API to use new Camera2 API• Languages Used: Java (Android) and C++ CLOUD SHERPAS Software Engineering Intern <ul style="list-style-type: none">• Worked remotely on a team with five other interns to specialize an internal help desk ticketing system to clients' needs• Worked with a variety of clients including a large national cable company• Languages used: JavaScript and some C++	San Diego, CA May 2016 – Aug 2016 Fairfax, VA Jun 2014 – Aug 2014
PROJECTS	Assembly Language Project <ul style="list-style-type: none">• Collaborated with three other people in order to make a game that lets the user play a basic version of Guitar Hero• Learned about finite state machines, basic computer architecture, coding in Verilog, and a simplified assembly language called ase100.• Worked with Altera DE2-115 FPGA boards Android Application <ul style="list-style-type: none">• Developed Android Application for Android Wear Smartwatches to track arm motions• Intended to be used by golf, tennis, and baseball players to review and critique their swing motions• Logged accelerometer and gyroscope data in order to create a 3-dimensional position graph• Ideally could replace expensive recording equipment players currently use to review and analyze their swing technique	
ACTIVITIES	University of Michigan Electric Motorcycle Racing Team <ul style="list-style-type: none">• Team set World Record time for quarter mile and one eighth mile distances Eta Kappa Nu (IEEE Honor Society)	Sept 2015 – Present Sept 2016 – Present