

Connor F. Henley

<https://cfh.sh>

OBJECTIVE:	Dedicated Computer Engineering graduate looking to start a career in low-level software or high-level hardware (FPGA), where I can apply topics learned in class and experience from co-ops.		
EDUCATION:	Rochester Institute of Technology	Rochester, NY	
	Master of Science in Computer Engineering	Expected May 2021	
	Compiler Construction	Real-time & Embedded Systems	
	Hardware/Software Design for Crypto. Apps.	Reconfigurable Computing	
	Thesis Title: <i>Hybrid Scheduler for Performant High-Level Synthesis</i> (in-progress)		
	Thesis Advisor: Dr. Sonia López Alarcón		
	Bachelor of Science in Computer Engineering	Expected May 2021	
	Minor in Computer Science, Immersion in ASL and Deaf Cultural Studies	GPA: 3.70	
	Computer Organization & Architecture	Interface & Digital Electronics	
	Digital Systems Design I & II	Operating Systems	
SKILLS:	Software: FreeRTOS, git, Keil µVision, Linux, STM32CubeIDE, Xilinx SDK & Vivado Programming Languages: ARM Assembly, C, C++, C#, Java, L ^A T _E X, Matlab, Python 3, VHDL Hardware: 3D Printer, Multimeter, Oscilloscope, Power Supply, Signal Generator, Soldering		
PROJECTS AND LABS:	NXP Cup Car for Interface & Digital Electronics <ul style="list-style-type: none">Wrote software to autonomously drive a model car around a track as fast as possibleInterfaced with various sensors and used different control theory methodologies Power Wheels Universal Control Interface <ul style="list-style-type: none">Worked in multidisciplinary team of students to build modified Power Wheels vehicle, used to help children with limited mobility learn how to drive wheelchairsDeveloped code-base that processed analog joystick input and generated analog output RIT FIRST ImagineBots <ul style="list-style-type: none">Led a project to redesign our table-top robots, which are driven by attendees of ImagineRITCollaborated with other students to design the architecture, write firmware and application software, as well as design some of the circuitry used in the control system		
EXPERIENCE:	Senior Project Computer Engineer	2021 - Present (Incoming)	
	Lutron Electronics, Boston MA		
	Computer Engineering Firmware Co-op	Aug 2018 - Dec 2018, May 2019 - Aug 2019	
	Diebold Nixdorf, North Canton OH		
	<ul style="list-style-type: none">Maintained and improved a firmware debugging tool which was used by team members dailyWrote automated firmware tests in C# and participated in Agile software development		
	Teaching Assistant and Grader		
	Rochester Institute of Technology, Rochester NY		
	<ul style="list-style-type: none">Graded C programs of students in a Linux environmentGraded Java projects using IntelliJ and Java 12Graded and helped student write and debug VHDL using Vivado	<div>Aug 2017 - May 2018</div> <div>Sept 2019 - Dec 2019</div> <div>Aug 2020 - Dec 2020</div>	
AWARDS:	A+ and Network Pro Certified Chairmans’s Award and Dean’s List Nominee from FRC Team 1699 Dean’s List from Kate Gleason College of Engineering, Spring 2017 through Fall 2020		
ACTIVITIES AND HOBBIES:	FIRST Robotics	Oct 2009 - Present	
	<ul style="list-style-type: none">Assisted teams with their robot as a Control System AdvisorVolunteered at FIRST events to keep the event running smoothlyParticipated on local FIRST teams, including leadership roles	<div>Jun 2018 - Present</div> <div>Apr 2014 - Present</div> <div>Oct 2009 - May 2016</div>	
	RIT FIRST Alumni Association		Sept 2016 - Present
	<ul style="list-style-type: none">Mentored various local FIRST robotics teams (FRC Team 3838 and local FLL teams), assisting with programming, electronics, team building, and game analysisLed the club as the President, ensuring club projects were successful		
	3D Printing Enthusiast, Amateur Radio Technician		