David KuehnertA long, thin rectangle to divide sections of the document

OBJECTIVE

* To obtain Co-Op experience in the field of Computer Engineering. Available beginning of February 2021

# EDUCATION Rochester Institute of Technology, Rochester, NY *— Bachelor of Science*

Expected graduation May 2022

Major Program: Computer Engineering Technology  
Minor Program: Mathematics

# RELATED COURSES

* Microcontrollers, Real Time & Embedded Systems - Comp Sci I, II (Python, Java)
* Digital Fundamentals, Digital Systems II - Intro. to Software Engineering
* Electronics I, DC & AC Circuits - University Physics I, II
* Calculus I, II, III (Multivariable) - Differential Equations
* Linear Algebra

# SKILLS

* **Hardware:** Arduino UNO, Raspberry Pi, STM32
* **Programing Languages:** ArduinoC, C, C#, Python, Java, MATLAB
* **HDL’s:** Verilog, & VHDL
* **IDE’s:** InteliJ, PyCharm, Arduino, Particle.IO, STM32CubeX, Keil
* **CAD Software:** KiCad, MultiSim, Quartus
* **Other:** Microsoft Office, Mac OS, Windows OS, various Linux distros, Google Drive Software, Oscilloscopes, Waveform Generators, Soldering

# PERSONAL PROJECTS

* **Electric Longboard:** Created a handheld RF radio controller using Arduinos for an e-board. The controller sent data for the ESC PWM controls, and signals to manipulate the LED lighting, all while receiving speedometer and odometer values from the e-board, to display to the user.
* **Water Gauge:** Broadcasts live water height data from a remote location. Uses sonar for measurements and sends data to a WiFi enabled Raspberry Pi using an RF radio. The Pi then uploads the collected data to a live twitter feed for users to view.
* **Smart Strip:** A six-outlet power strip that each outlet can be individually toggled. The manipulation can be done via a smartphone that has widget capabilities, or by speaking to a google home, and setting specific commands for how you want to manipulate this power strip.

WORK EXPERIENCE

**Lock 32 Whitewater Park,** Pittsford, NYMay 2018 - September 2020: Lead kayak instructor for youth whitewater camps over the summer of 2019 and 2020. If not instructing would be working on site maintenance, running the front desk, or loading people in and out of the canal.

**Stalwarts Industrial Packaging Inc**, Shortsville, NY December 2018 - January 2021: Factory floor worker, doing various tasks all focused around the purpose of building large, specialty, wooden shipping pallets.

# INTERESTS

* Whitewater kayaking, Canoe Slalom Racing, Running, Bouldering, Weightlifting