

# Seth Gower

sdg7234@rit.edu

(757)553-0576

github.com/SethGower

Seeking Software/Hardware Engineering Coop, with Embedded systems for Spring-Summer 2021

## Education

---

### Rochester Institute of Technology

Bachelor of Science: Computer Engineering, 5 year program

GPA: 3.04 -- Dean's List Spring '19

Rochester, NY

May '22

## Skills

---

**Languages:** C, VHDL, Arm Assembly, Python, Java,  $\LaTeX$ , Bash, Rust, C++, Qt5

**Tools:** Xilinx Vivado, Git, KiCad, Altera Quartus II, ModelSim, GNU/Linux tools and environment

**Hardware:** Soldering, Prototyping on breadboard, Hardware design on FPGA

**Professional Skills:** Public Speaking, Spanish (Semi Conversational)

## Projects

---

### Pipelined MIPS Processor

Created each stage of a MIPS processor, individually tested these stages. The processor was modeled and tested using VHDL and then implemented on to Basys 3 FPGA. Once complete, the processor will be used to calculate a portion of the Fibonacci sequence

VHDL

January-May '19

**haC64** [github.com/SethGower/haC64](https://github.com/SethGower/haC64)

BrickHack V project. Myself and a partner worked to emulate the Commodore 64's processor, the 6510. This project is still in progress, after the processor is complete, the Video Controller will be modeled.

VHDL

February '19-Present

## Work Experience

---

### D3 Engineering: Software Engineer

Software Engineering technician at D3 Engineering, where I primarily worked with Embedded Linux and C development on Texas Instruments' TDA line of processors, for automotive vision applications. While working with these processors, I gained experience working with I2C, Linux Device Tree modification, and other skills.

Rochester, NY

January '20 - Present

### iD Tech Camps: Lead Instructor

*iD Tech Camps: William and Mary, PayPal Timonium and American University*

Taught multiple courses to campers ranging from ages 7--17. Taught Java and Python coding, basic Linux and circuitry on Raspberry Pi and Robotics. Additionally taught various encryption methods with Python

Multiple Locations

June-August '18, '19

### Teaching Assistant

*RIT Computer Engineering Department*

Teaching Assistant for the Computer Engineering Department. Assisted with Intro to Computer Engineering (CMPE-110), Digital Systems Design I (CMPE-160) and Applied Programming in C (CMPE-380). Assisted students understand the material, graded turned in items including technical lab reports.

Rochester, NY

August '18-Present

## Organizations

---

**Engineering House** [ehouse.rit.edu](https://ehouse.rit.edu)

*Positions Held: Secretary*

Engineering House is a social floor with an academic interest. EHouse is a place where students gather to learn and socialize through project based learning and mentor-mentee relationships.

Rochester, NY

October '17--Present

**Computer Science House** [csh.rit.edu](https://csh.rit.edu)

Computer Science House is a Special Interest House at RIT, that focuses on working on projects and improving learning and college life by surrounding members with like-minded people. Active Member from August '17 - May '18.

Rochester, NY

August '17--Present