

# Seth Gower

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github.com/SethGower

Seeking an Engineering Co-op, focusing on Low-Level hardware and software for the Summer of 2019

## Education

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### Rochester Institute of Technology

Bachelor of Science: Computer Engineering, 5 year program

Rochester, NY

May 2022

## Skills

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**Languages:** Arm Assembly, VHDL, Python, Java,  $\text{\LaTeX}$ , Arduino C, Bash Scripting

**Tools:** Git, KiCad, Altera Quartus II, ModelSim

**Hardware:** Soldering, Prototyping on breadboard

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

## Projects

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### 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-Present

### 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 2019-Present

### Giant 3D Printer

The Giant 3D printer project is a project through Engineering House for ImagineRIT that aims to build a 3D Printer with a large printing space and the ability to potentially double as a CNC mill and laser engraver.

Hardware

September 2018--Present

## Work Experience

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### 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

Multiple Locations

June-August 2018

### Teaching Assistant

*RIT Computer Engineering Department*

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

Rochester, NY

August 2018-Present

### Audio Video Responder

*Classroom Technology Support*

Provides technical support to professors and other patrons who use the classrooms and A/V systems provided by the University.

Rochester, NY

January 2018--Present

## Organizations

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### Engineering House [ehouse.rit.edu](http://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 2017--Present

### codeRIT [codeRIT.org](http://codeRIT.org)

codeRIT is RIT's student organization that encourages the hacker culture at RIT by promoting other school's hackathons, and hosting BrickHack, RIT's premier hackathon, an MLH member event. I am an organizer for BrickHack, and am on the Travel, Logistics and Sponsorship committees.

Rochester, NY

February 2018--Present