Seth Gower

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github.com/SethGower

Seeking an Engineering Co-op, focusing on Hardware design and Low-Level Hardware and software for Spring-Summer 2020

Education

Rochester Institute of Technology
Rochester, NY

Bachelor of Science: Computer Engineering, 5 year program

May '22

GPA: 2.99 -- Dean's List Spring '19

Skills

Languages: Arm Assembly, VHDL, Python, Java, $\LaTeX$, Arduino C, Bash

Tools: Xilinx Vivado, Git, KiCad, Altera Quartus II, ModelSim, Linux Based Operating Systems

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

Professional Skills: Public Speaking, Spanish (Semi Conversational)

Projects

Pipelined MIPS Processor
VHDL

January-May '19

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

Giant 3D Printer
Hardware

Sept '18 - March '19

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.

Work Experience

iD Tech Camps: Lead Instructor
Multiple Locations

June-August '18, '19

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 taugh various encryption methods with Python

Teaching Assistant
Rochester, NY

August '18-Present

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.

Organizations

Engineering House ehouse.rit.edu
Rochester, NY

October '17--Present

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.

Computer Science House csh.rit.edu
Rochester, NY

August '17--Present

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.

codeRIT codeRIT.org
Rochester, NY

February--August '18

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.