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

Rochester Institute of Technology
Bachelor of Science: Computer Engineering, 5 year program

Rochester, NY
May 2022

Skills

Languages: Arm Assembly, VHDL, Python, Java, 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

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/haC64/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

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

Engineering House   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
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