Seth Gower

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github.com/SethGower

Seeking Software/Hardware Engineering Coop, with Embedded systems for Spring-Summer 2020

Education

Rochester Institute of Technology
Rochester, NY

Bachelor of Science: Computer Engineering, 5 year program
GPA: 3.04 -- Dean's List Spring '19
May '22

Skills

Languages: C, Arm Assembly, VHDL, Python, Java, LaTeX, Bash, Rust
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
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

haC64   github.com/SethGower/haC64
VHDL
February '19-Present

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.

Work Experience

D3 Engineering: Software Engineer
Rochester, NY
January '20 - Present

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.

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.