

Seth Gower

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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

Relevant Coursework:

- [Reconfigurable Computing \(CMPE-660\)](#) - Made complex synchronous designs on Nexys 4 DDR FPGA board. In Progress.
- [Interfacing Digital Electronics \(CMPE-460\)](#) - Used FRDM-K64 ARM board to interface with peripherals, to eventually build and program an autonomous race car. In Progress.
- [Digital Signal Processing \(CMPE-480\)](#) - Studied mathematical analysis of digital signals, and how to represent. In Progress.

Rochester, NY

Expected May '22

Skills

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

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

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

Professional Skills: Public Speaking, Spanish (Semi Conversational), Team Management

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

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. I also led the design and execution of the testing framework for the latest line of products (TDA4 Board). While working with these products, I gained experience working with I2C, Linux Device Tree modification, and other skills.

Rochester, NY

January '20 - Present

Teaching Assistant

RIT Computer Engineering Department

Assisted in Lab for a variety of classes over the course of 3 years. Taught concepts to students, and helped students debug, problems.

Rochester, NY

August '18-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. Active Member October '17 - May '19

Rochester, NY

October '17--Present

Computer Science House [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