

Scott Madeux

smadeux.github.io • linkedin.com/in/scott-madeux • (763)-273-3395 • scott.madeux@gmail.com

Education

Bachelor of Science in Computer Engineering <i>Brigham Young University – Idaho</i>	Expected Graduation: April 2020 <i>Rexburg, ID</i>
<ul style="list-style-type: none">GPA: 3.72Relevant Coursework: VLSI Design, Advanced Digital Systems, Electronic Devices and Circuits, Embedded Systems, Computer Architecture, Object Oriented Programming, Data Structures	

Projects

8-bit Register File Design <i>VLSI Design Project</i>	60 Hours <i>Rexburg, ID</i>
<ul style="list-style-type: none">In a team of 3, designed a CMOS 8-bit register files using Glade (similar to Cadence) and LTspiceImplemented design rules for spacing and size of substrates, contacts, interconnects, etc.Acquired techniques for efficient layout and debugging of CMOS circuits	
Motorized Camera Slider <i>Embedded Systems Project</i>	80 Hours <i>Rexburg, ID</i>
<ul style="list-style-type: none">Built a camera slider run by a stepper motor and controlled by a Raspberry PiWrote a python script to control the camera slider using the parameters given by the user	
FPGA Matrix Multiplier <i>Digital Systems Project</i>	20 Hours <i>Rexburg, ID</i>
<ul style="list-style-type: none">Created a module in Verilog that was able to multiply matrices in parallelShowed how FPGAs can be used to make certain applications such as matrix multiplication much faster	

Skills

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|----------|-----------------|---------------|-------------------|
| • C++ | • CMOS Circuits | • VLSI Design | • Glade (Cadence) |
| • Python | • FPGA Design | • Verilog | • Linux |

Work Experience

Computer Science Tutor <i>Brigham Young University – Idaho</i>	January 2017 – December 2018 <i>Rexburg, ID</i>
<ul style="list-style-type: none">Demonstrated ability to teach difficult concepts in a manner that is easy to understandTutored students for over 500 hours in computer science and electrical engineering	
Tour Guide <i>Holland America Princess</i>	May – September 2017 & 2018 <i>Skagway, AK</i>
<ul style="list-style-type: none">Ensured the safety and entertainment of 40-45 passengers during 2-day tours of Alaska and the YukonHired onto the company's highway program and gave premium tours to high paying guests (Uncommon for a first-year driver)	