

Jameson Thies

5149 Tipton Street, San Diego, CA 92115
(714) 369-0747, jamesonthies@gmail.com

EDUCATION

Bachelor of Science in Computer Engineering

August 2014 - May 2018

San Diego State University

Overall GPA: 3.62

Major GPA: 3.81

EXPERIENCE

San Diego State University Research Foundation

Research Assistant

June 2017 - Present

- As a Research Assistant in SDSU's VLSI Design and Test Laboratory, I am researching efficient FPGA and ASIC data processing for applications including Brain Computer Interfaces through funding from the Center for Sensorimotor Neural Engineering and the SDSU Summer Undergraduate Research Program

Cognuse Inc.

Software Engineering Intern

May 2016 – September 2016

- Developed React/Redux application interfaces that adapt to a range of API responses creating modular, adaptable applications which allow for accurate patient diagnoses, and responsive user interactions

SKILLS & INTEREST

Skills: C, C++, Python, MATLAB, Verilog, VHDL, JavaScript, C#, R

Interest: VLSI Design, Parallel Computing, Data Science, Embedded Systems Programming

PROJECTS

ASIC Compression for Brain Computer Interfaces

- Investigating the feasibility of low power integrated circuit implementations of undercomplete autoencoders for compression of neural spikes
- Funded by the Center for Sensorimotor Neural Engineering

Reconfigurable FPGA Based Discrete Cosine Transform Architectures

- Created a fully reconfigurable RTL design for the high throughput computation of Fast DCT algorithms of various lengths
- Used MATLAB for fixed-point simulations and Verilog for hardware description
- Presented at 2018 SDSU Research Symposium

FPGA MIDI Synthesizer

- Worked as Project Manager with four other electrical and computer engineers in the design and implementation of a MIDI Synthesizer based on a Spartan 6 FPGA with a mobile Bluetooth interface
- Presented at Fall 2017 Senior Design Day