

# Nathaniel Perkins

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## OBJECTIVE

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To obtain an internship position in a computer science and engineering related field that offers ample opportunities to further develop programming skills.

## EDUCATION

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University of California San Diego

San Diego, CA

Bachelor of Science in **Computer Engineering**, December 2017

GPA: 3.1

Relevant Coursework: Introduction to Computer Science and Object Oriented Programming, Data Structures and Object Oriented Design, Techniques and Tools Lab, Math Algorithms and Systems, Computer Organization and Systems Programming, Intro to Analog Design, Advanced Data Structures, Software Engineering, Design and Analysis of Algorithms, Engineering Probability and Statistics, Intro to Differential Equations, Linear Algebra, Vector Calculus, Components and Circuits Laboratory, Principles of Computer Operating Systems, Introduction to AI: Search and Reasoning, Database System Principles, Component and Design Techniques for Digital Systems, Digital Systems Laboratory, Computer Architecture, Microelectronic System Design, Advanced Digital Design Project

## PROJECTS

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SHA1/SHA256/MD5 Project

- Created a pipelined program that allows selection between any of the above algorithms, implemented in System Verilog
- Worked to optimize code to minimize device area and delay
- Utilized Quartus/Modelsim to simulate design and waveforms

Nachos Operating System

- Implemented many parts of the nachos operating system developed by Berkeley, including thread, multiprogramming, and virtual memory support
- Worked in a three-man team to finish the project

## SKILLS

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- *Languages:* Java, C, C++, Python, SQL, MATLAB, SPARC Assembly, System Verilog, VHDL
- *Tools:* Git, Vim, Microsoft Office, Android Studio, Eclipse, Modelsim, Quartus
- *Operating Systems:* Linux/UNIX, Windows
- Experience with computer hardware assembly and maintenance

## EXPERIENCE

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Sherman Heights Community Center

San Diego, CA

*Mathematics Tutor*

Spring 2015

- Worked efficiently with an underprivileged elementary grade student at learning basic mathematics
- Communicated effectively with parent and counselor with the needs of the student
- Explained concepts in easy-to-understand terms