

David Corey

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Education

Computer Science, B.S.
Mathematics Minor
Brigham Young University

- GPA: 3.68

December 2018
Provo, UT

Associate of Science, General Studies
Utah State University

- GPA: 3.82
- Dean's List for the College of Engineering – Fall 2014

2016
Logan, UT

Skills

- C++
- C
- Python
- Assembly (RISC)
- Bash
- Object Oriented Design
- UML
- Verilog
- HTML, CSS, JavaScript
- Linux Operating System

Relevant Courses

- **Discrete Structures** – Implemented mathematical structures in C++ to create a parser and interpreter (Current)
- **Data Structures and Algorithms** – Created data structures in C++ and implemented fundamental algorithms
- **Computer Systems** – Programmed MSP430 development boards in low level C and Assembly
- **Digital Circuits** – Designed Combinational and Sequential Circuits. Implemented them on FPGA's in Verilog
- **Electromagnetism** – Studied basic electrical theory and circuit design

Clubs and Projects

- **BYU ACM** (Association of Computing Machinery)
- **Mechatronics Club:** Creating a automated robot using an Arduino Nano – See personal website for updates
- **BYU Linux Club:** Participate in install fests and informational events, learn the Linux environment
- **Raspberry Pi:** Created a Webserver with a Raspberry Pi to host my personal website, used a LAMP stack

Work Experience

Teaching Assistant – Computer Systems

August 2016 – Current

Brigham Young University

Provo, UT

- Teach the fundamentals of Computer Architecture in order to help students gain a conceptual understanding of how computing machinery operates
 - Teach low level C programming and Assembly so that students can implement the concepts learned in lecture to increase their understanding and allow them to gain personal experience of computer systems
 - Assisted students with homework and projects including debugging, design, and conceptual understanding
 - Counsel with instructor and other TA's to identify common problems students are facing, in order to create solutions, make important decisions regarding the course, and design new curriculum so as to improve and enhance the course
 - Currently assisting with migrating lab projects from the MSP-430 development board to the TI-MKII Educational Micro-Controller
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