

C MARK HALBERSTADT

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Experience

Hewlett Packard Enterprise Fort Collins, Colorado
Software Engineer
May 2015 - Present

- Designed and implemented embedded software for iSCSI and Fiber Channel SAN appliances in a distributed system
- Architected automated integration testing environment and oversaw a team of off-shore and on-shore contractors with implementation of tests

Xpanxion Fort Collins, Colorado
Software Engineer
November 2014 - April 2015

- Worked on a team developing SaaS products for financial services
- Implemented REST API using Spring MVC framework

CenTrak Newtown, Pennsylvania
Electrical Engineering Intern
June 2013 - August 2013

- Designed and Implemented improvements for reducing bit error rates and minimizing power consumption in digital communication protocols
- Implemented digital transmission protocols on TI MSP 430 microcontrollers
- Used digital logic analyzers for debugging communication protocols

Temple University NASA Robotic Mining Team Philadelphia, Pennsylvania
Team Leader
September 2010 - June 2014

- Designed and built robots representing Temple University in four NASA competitions held at Kennedy Space Center
- Implemented infrared light based location system with particle filter for autonomous driving in presence of added interference

Temple University Engineering Tutoring Philadelphia, Pennsylvania
Engineering Tutor
September 2012 - May 2014

- Tutored electrical and mechanical engineering undergraduate students in signal processing, electromagnetic fields and waves, microprocessor systems, data structures, physics, and calculus

YouTube Channel (youtube.com/cmarkhalberstadt) Content Creator, YouTube Partner
March 2010 - Present

- Created over 400 videos covering topics in programming, electrical engineering, signal processing, robotics, chemistry, and music

Education

Temple University Philadelphia, Pennsylvania
Graduated May 2014
GPA: 4.00 / 4.00

- Bachelor of Science, Electrical and Computer Engineering
- Graduated Summa Cum Laude with First Academic Honors
- President of Eta Kappa Nu engineering honor society
- President of IEEE student organization

Skills

Languages: Java, C/C++, Python, MATLAB, x86 Assembly, MIPS Assembly

Microcontrollers: TI MSP 430, PIC 32, Arduino

Other Skills: REST services, XML, JSON, Subversion, Git, Maven, TestNG, Jenkins, Rally

Other

- Worked extensively in NASA and Pennsylvania Space Grant funded Student Space Exploration and Embedded Systems Laboratory at Temple University
- Featured as a Khan Academy College Hero in April of 2014
- Volunteered with the Denver Dumb Friends League Humane Society Animal Shelter