

C MARK HALBERSTADT

Fort Collins, CO ■ (610) 304-9592 ■ www.cmarkhalberstadt.com ■ c.mark.halberstadt@gmail.com

Experience

- Hewlett Packard Enterprise** Fort Collins, Colorado
Software Engineer
May 2015 - Present
- Designed and implemented embedded software for both single and dual-controller iSCSI and Fibre Channel SAN appliances
 - 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