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EDUCATION

Purdue University - School of Electrical and Computer Engineering
BS in Computer Engineering

Graduated: *May 2013*
Cumulative GPA: 3.29 / 4.0

SKILLS

- Solid State Drive (SSD) architecture and failure analysis
- NAND Flash Component failure analysis
- Oscilloscope and lab equipment usage
- PCI Express protocol
- C programming language
- Soldering
- Linux / Unix and Windows
- Python
- Microcontroller programming and interfacing
- Low speed serial protocols (UART, I2C, SPI)
- Computer Architecture and VHDL

WORK EXPERIENCE

SSD Failure Analysis Engineer - Intel Corporation - Folsom, CA *September 2013 - Present*

- Part of the solid state drive (SSD) failure analysis team which is responsible for root causing drive failures
- Work closely with hardware and firmware development teams to identify and correct issues found during product validation, reliability testing, and customer qualification
- Possess deep understanding of SSD architecture and many of its various subsystems
- Develop specialized stress tests in python to isolate failures more quickly
- Specialize in failure analysis of SSD hardware including power supplies, NAND flash components, and communication busses.
- Use knowledge of PCI express protocol to diagnose host interface issues on high performance enterprise class SSDs

SSD Failure Analysis Intern - Intel Corporation - Folsom, CA *May-August 2012*

- Developed and improved a wide variety of software tools, written in python and C, which were used by the failure analysis team
- Implemented a data mining algorithm for an automated failure analysis application written in python that improved the accuracy of reported failure mechanisms
- Learned about SSD operation and helped diagnose failed drives

Undergraduate Teaching Assistant - Purdue University - West Lafayette, IN *January-May 2012*

- Worked as a teaching assistant for ECE 362 "Microprocessor Systems and Interfacing" which taught microcontroller interfacing and software design
- Coordinated a lab section of about 20 students once a week as well as holding office hours in lab once a week

Software Development Intern - MRO Corporation - King of Prussia, PA *May-June 2011*

- Interned with the software development team of MRO's web services group which offers a cloud-based release of medical information service to hospitals
- Developed a graphical interface to allow users to "print" medical documents directly to a patient's file in the MRO SQL database by using C# language

ACTIVITIES

Vertically Integrated Projects - Purdue University, IN *August-December 2011*

- Collaborated with students at Hong Kong University of Science and Technology ("HKUST") to design a remote-controlled vehicle capable of being operated from both Hong Kong and the U.S

NASA University Student Launch Initiative - Purdue University, IN *October 2011 - April 2012*

- Held crucial role in team of university students working to design, build, and launch a large rocket
- Member of the payload team, which designed and constructed the rocket's electronic measurement systems