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Objective

Obtaining a senior firmware development position with a progressive company, emphasizing low-level systems design and integration.

Work History

Western Digital Corporation

San Jose, California - Western Digital Corporation manufactures hard disk drives. **2003 to Present**
I am a senior staff engineer, doing software development on servowriter and media writer platforms. Code development is primarily in Microsoft Visual C++, and aimed at a Windows 2000-based target platform. Code version control is through PVCS. I currently have one patent granted (#6,992,852) and one patent pending related to servowriter process improvement.

Seagate Technologies

Fremont, California - Seagate Technologies manufacturers and servowrites computer hard disks at their combined Fremont and Milpitas facilities. **2002 to 2003**
I work as a Design Engineer, maintaining the operation of Seagate's multi-disk servowriter systems: modifying scripts as necessary for various drive design team experiments, manufacturing needs, and general code upkeep. Code versions are preserved using PVCS.

Lasercard Systems

Mountain View, California - Lasercard Systems manufactures SCSI based reader/writers for optical memory cards. **2001 to 2002**
I worked as a Senior Firmware Engineer. Code was written in Hitachi HS8 Assembly language. I developed diagnostic test capabilities for the drive and converted the existing SCSI protocol to work across an RS-232 serial connection.

Sandisk Corporation

Sunnyvale, California - Sandisk manufactures FLASH memory cards for digital cameras, MP3 players, cell phones, and many other applications. **2000 to 2001**
I worked as a Senior Firmware Engineer in the product engineering group, developing extensive amounts of firmware that have been used on two generations of NAND memory products, and using a mix of C and assembly language for the 68HC11 processor core.

Quantum Corporation

Milpitas, California - Quantum Corporation (now part of Maxtor) manufactured ATA and SCSI hard disk drives for the computer industry, with most of their manufacturing being done in Ipponmatsu, Japan. **1995 to 2000**
I worked as a Design Engineer IV before I left Quantum, but have a long history of accomplishments from Quantum, including various titles and a patent. I developed code for a wide variety of NEC and Intel processors in C and assembly language, and have debugged hardware down to the component level.

Maxtor Corporation

Boulder, Colorado - Maxtor Corporation is also a manufacturer of hard disk drives. **1994 to 1995**
My goals for moving to Maxtor included becoming a development firmware engineer and to experience working with the TI C25 and C50 DSPs. I developed some code for their DSP core, but primarily performed FA on a number of drives using the Intel 8X196 processor. I also visited customer sites to assist in their product debug efforts and code development, including NeXT systems and a commercial PC diagnostics software supplier.

Quantum Corporation **Milpitas, California** - Quantum Corporation's research facility in Milpitas, California includes a large test group organization. I worked in the test group as a software developer for test systems, such as head/media characterization apparatus and manufacturing level servowriters. I wrote code in C and assembly for 80x86 CPUs, and in assembly language for Intel 8x196 controllers. A laser controlled servo positioning system(PID control), servo pattern generation and verification, and serial/system interface were some of the functions for which I developed code. **1989 to 1994**

GRiD Systems **Fremont, California** - GRiD Systems was responsible for the invention of the lap-top computer, as we know it today. I held various titles over the four years I worked there, ending with Associate Engineer in charge of field engineer hardware repair training, which entailed developing training materials and running internal and field training courses. **1985 to 1989**

TSA Associates **Boulder, Colorado** - TSA Systems manufactures radiation monitors for the Department of Energy and various mining concerns. I worked there as a technician, and eventually rose to production supervisor prior to moving to California. **1984 to 1985**

Education

Devry Institute of Technology **Phoenix, Arizona** - Participated in the BSEET program for one year on a Bell & Howell Full Paid Scholarship. **1978 to 1979**

University of Colorado **Boulder, Colorado** - Pursued a Bachelor of Science degree in Environmental Conservation **1983 to 1984**

Foothills Jr. College **Golden, Colorado** - Pursued a Computer Science degree. **1984**

References

Furnished upon request.