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## **Experience:**

### **March 2008 to may 2009 - Halliburton Energy Services, Fort Lupton, Co.**

#### *Electronic Technician*

- Responsible for electronic maintenance of networked, computer based equipment.
- Learned about CAN bus electronics and industrial controls.
- Maintained Windows NT and XP based industrial computers.
- Maintained anti-virus protection for client computers and servers.
- Troubleshoot and repair all types of electronic control sensors and buses.
- Used SAP to access and input information pertinent to position.
- Worked with flow meters, densometers, viscometers, temperature and pressure sensors.

### **Feb 2001 to may 2006 - Blake Brothers Inc. Denver, Co.**

#### *I.T. Consultant*

- Responsible for administration of 15 client Windows Network.
- Implemented DSL Internet access for network.
- Maintained Foxpro based database program for invoicing of customers.
- Implemented anti-virus protection for client computers and servers.
- Procured and maintained laptop computers for travelling sales support.
- Use MS WORD and EXCEL to document findings and data for distribution.
- I wrote a new invoicing program in Visual Basic to invoice customers.
- I created a cd-rom version of their print catalog for distribution.

### **Feb 1997 to November 2001 - StorageTek inc. Louisville, Co.**

#### *Senior Engineering Technician - Power Systems Group*

- Perform U.L. testing of power supplies for STK's products.
- Use HP8591E spectrum analyzer to measure EMI levels from power supplies
- Perform differential and common mode surge testing of power supplies.
- Assist in prototyping, testing and debugging new designs.
- System and component level troubleshooting and repair to component level.
- Utilized Mentor Graphics software on HP UNIX workstation to perform schematic capture on new designs and drawing revisions on existing designs.
- Use MS WORD and EXCEL to document findings and data for distribution.
- PC programming in Q-basic to perform automated power supply testing.

**July 1996 to Feb. 1997 - BI Inc. Boulder, Co.**

*Senior Engineering Technician – Engineering Department*

- Perform R+D rapid prototyping for new products.
- Used HP 8591E Spectrum Analyzer to troubleshoot 314 Mhz RF products.
- Used HP 8753D Network Analyzer to aid in the troubleshooting of surface mount /discrete analog circuits.
- Helped sustaining Engineer by performing product testing/evaluation.
- Use MS WORD and EXCEL to document findings and data for distribution.

**July 1994 to July 1996 - Olympian Executive Suites, Denver CO**

*PC support – part time position*

- Responsible for the maintenance and repair of the company's PC computers at the company's 3 Denver metro area locations.
- Repaired and maintained HP LaserJet printers.
- Responsible for upgrades, and troubleshooting for MS WIN95/98 Operating systems.

**November 1995 to July 1996 - Lockheed-Martin Corporation, Littleton, CO**

*Senior Research & Development Technician – parts evaluation Laboratory*

- screening of military grade active and passive components to MIL-STD-883D.
- use a variety of computer based test systems for electrical acceptance testing of active and passive electronic components.
- use thermal chambers and portable ovens/environmental equipment.
- responsible for data collection for customer review using MS-Excel and Word.
- use oscilloscopes, DVM's, curve tracers and other electronic equipment for bench testing to military specifications.

**May 1994 - November 1995 - Martin-Marietta Corporation, Littleton, CO**

*Senior Research and Development Technician – Failure Analysis Laboratory*

- conduct destructive physical analysis on electronic components, including: IC's, resistors, capacitors, crystal oscillators and discrete hybrid circuits.
- used a SEM (Scanning Electron Microscope) to inspect integrated circuits for metallization defects, and particle contamination composition by x-ray spectral analysis.
- used a wide variety of laboratory grade microscopes and cameras to evaluate and document anomalies when present.
- used gold deposition, reactive ion etching equipment.
- support Failure Analysis efforts on suspect hardware when needed.
- performed chemical etching, stripping, and semiconductor die staining processes.
- verify quality compliance to various military specifications.

## **May 1989 - May 1994 - Martin-Marietta Corporation, Littleton, CO**

### *Research and Development Tech III - Inertial Guidance Laboratory*

- Responsible for fabrication, debug, and test of servo and PID control systems.
- Learned about servo, closed-loop feedback control circuits, analog filters, lasers, and optical sensors.
- Use Hewlett-Packard and Tektronics frequency analyzers to debug and test analog filter circuits.
- used a Tektronics 1241 logic analyzer to troubleshoot and repair 68020 microprocessor based hardware.
- Support research and development efforts for customer proposals.
- Electronic packaging design, layout, and artwork.
- Used Hewlett-Packard Apollo workstations for electronic schematic capture, and mechanical details, layouts, etc.
- responsible for specifying and ordering electronic parts and hardware.
- troubleshoot and repair various lab equipment such as computer monitors and power supplies, power amplifiers, etc.
- used a small milling machine to fabricate prototype fixtures/mounts for electronic sensors and optics.
- use curve tracers, and assorted bench equipment to verify proper function of components.

## **February 1986 - May 1989 - Martin-Marietta Corporation, Littleton, CO**

### *Research and Development Tech II - Power Systems Laboratory*

- Responsible for fabrication, assisted in debug, and helped to maintain prototype test beds for custom power systems for space vehicles.
- Learned about PWM high-current switching power supplies, linear power supplies, and general high-power electronics.
- Supported evaluation and acceptance testing of custom power systems using Oscilloscopes, Curve Tracers, current shunts, voltmeters, etc.

## **November 1984- February 1986 - Martin-Marietta Corporation, Littleton, CO**

### *Test Tool Tech I - Electronic Test Tooling Department*

- Responsible for fabrication, test, and maintenance of prototype test equipment used in the testing of flight hardware.
- Used oscilloscopes, function generators, and logic analyzers to verify correct operation of the custom test equipment.
- Soldering and workmanship of the highest quality was essential for successful acceptance testing of flight hardware.

## **EDUCATION**

### **Bachelor of Science in Information Technology.**

University of Phoenix. Phoenix, AZ  
Graduated April, 2004

Bachelor of Science in Electronic Engineering Technology  
1996-2000 Metropolitan State College of Denver

I have two years completed toward a Bachelor Of Science In Electronic Engineering Technology.

### **Associate of Applied Science degree**

Red Rocks Community College  
Lakewood, Co.

Major: Electronic, Digital and Computer Technology  
Graduated May, 1988

### **2 year Certificate of Completion**

Warren Occupational-Technical Center Lakewood, Co.

Radio & T.V. Repair

Graduated January, 1983

### **High School Diploma**

Clear Creek Secondary School

Idaho Springs, Co.

Graduated May, 1981