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Tim D. Hastings

Objective **A challenging and professional position as an Electronics Technician that makes use of my skills and experience.**

Experience **Pentagon Technologies**, Livermore, CA (Contract Assignment) 11/01 to 2/03
Senior Engineering Technician

Performed pilot run of PC based clean room environmental monitoring system using LabVIEW program that included temperature, relative humidity, differential air pressure, air velocity and 1 micron particle sensors. Made engineering changes for improvements, cost reduction and ease of assembly, Wrote assembly, test and troubleshooting procedures. Performed EMI engineering and built test fixtures.

DRS Precision Echo, Santa Clara, CA 8/99 to 7/01

Senior Engineering Technician

Worked on an engineering team developing next generation military airborne sonar recorders for P3C aircraft in a ISO 9001 mil-spec. environment. Built, maintained and repaired hardware and software development prototypes. Responsible for maintaining lab log book. Kept accurate records of all revisions of hardware and software in all development stations and pilot runs. Implemented all hardware and software upgrades. Worked with contractors to solve hardware and software issues. Performed EMI engineering and testing on radiated and conducted emissions using spectrum analyzers. Performed circuit characterizations using signal analyzers. Wrote engineering change orders and supervised manufacturing for the implementation of those changes. Built prototype boards and test fixtures. Performed component engineering tasks. Supported manufacturing and automated test systems using LabVIEW program. Performed thermal measurements, failure analysis of environmental and shock/vibration testing. Component level troubleshooting in digital, analog and electromechanical devices.

Sony Electronics, Inc., Fremont, CA (Contract Assignment) 1/99 to 8/99

Refurbish Engineer

Troubleshooting and repair of broadcast quality audio and video products for proper operation and specifications using vector scopes. Performed adjustments and repairs as needed, documented all failures and repairs. Component level troubleshooting in digital and analog. Performed board rework. Proficient in removal and replacement of SMT and thru hole components.

Ampro Projection Systems, Mountain View, CA 9/93 to 12/98

Technical Support Specialist

7/96 to 12/98

Responded to telephone inquiries and provided verbal and written technical support to customers on liquid crystal light valve, CRT and LCD projectors. Repaired projectors returned from customers, interfaced with other departments within the company to research customer problems. Developed technical bulletins, monitored and kept records of changes made through engineering change orders. Received orders of replacement parts and shipped to field locations. Provided sales support with application design, demonstrations and trade show support. Provided firmware upgrades. Assisted in keeping the customer database updated with current technical information. Domestic and international travel to customer sites to provide repairs and training. Component level troubleshooting in digital, analog and electromechanical devices.

Lead Manufacturing Electronics Technician

9/93 to 7/96

Management of Test Department in the manufacturing of large screen liquid crystal light valve video/RGB auto mode projectors. Organized and prioritized work to ensure all production schedules were met while ensuring quality standards, ESD and safety precautions were observed. Supervision of board testing and repair of all MC68032 based PCA's including power supplies and high voltage deflection boards. Maintained accurate records of all failures and repairs. Component level troubleshooting in digital, analog and electromechanical devices and performed board rework. Used a wide variety of test equipment including logic analyzers, curve tracers, LCR meters, oscilloscopes, function generators, multimeters, current probes, logic probes, high voltage probes, frequency counters, etc. Order parts as necessary. Tracked and recorded inventory of PCA's for monthly build schedules.

Supervision of PCA rework area; ordered parts to implement ECO's.

Supervision of chassis assembly area.

Supervision of System Integration area. Adjusted convergence and all display geometries using internal DAC's for all specified modes. Performed optical adjustments. Tested all electrical functions including auto convergence. Measured and adjusted RGB light levels using x-y color analyzers and light meters for proper display specifications. Maintained records for manufacturing database. Supported final test. Built, repaired and upgraded all test fixtures throughout entire division. Worked with scientists and engineers as a liaison to hardware, software and optical engineering for ECO generation. Implemented all software upgrades in EPROM's, PAL's and battery-backed ram. Wrote board testing and production test procedures. Set up equipment for product demonstrations. Worked with employment agencies to select, interview and hire applicants for all job openings in manufacturing. Provided training for all employees in the test department.

Supermac, Sunnyvale, CA (Contract Assignment)

2/93 to 9/93

Senior Electronics Technician

Repaired customer returned high resolution, multi mode color computer monitors. Used x-y color analyzers to adjust for proper color balance and intensity.

Santa Cruz Seaside Co., Santa Cruz, CA

12/90 to 2/93

Senior Electronics Technician

Repaired video games with interlaced and x-y monitors, pinball machines, change machines and all coin-operated arcade games. Performed board rework. Kept accurate records of all failures and repairs. Ordered parts when needed. Component level troubleshooting in digital, analog and electromechanical devices.

Mountain Computer, Scotts Valley, CA

11/86 to 12/90

Customer Service Technician

Support and repair of Hewlett-Packard and Apple compatible disk drives using floppies, hard drives and removables. Provided firmware upgrades. Repaired tape back-up units and software duplication system using 3 1/2", 5 1/4" and 8" floppy drives. Component level troubleshooting in digital and analog.

Hewlett-Packard, Sunnyvale, CA

10/78 to 10/86

Product Regulations - EMI Technician

4/86 to 10/86

Measured electromagnetic interference emissions from personal computers and peripherals on outdoor test range and anechoic chamber using automated/manual spectrum analyzers and EMI receiver systems for R&D testing. Performed production audits, range calibrations, repairs, maintenance and upgrades.

on loan to R&D Lab - EMI Technician

4/85 to 4/86

Measured and reduced electromagnetic interference emissions from multiple personal computer products in R&D and production through experimentation of ideas and materials using outdoor test range and anechoic chamber. Implemented a producible solution into production.

Electronic Maintenance Technician

2/83 to 4/85

Preventive maintenance, calibration and repair of automated test systems, computer terminals, personal computers, EMI receivers, printers, plotters, modems, multi-meters, oscilloscopes, disk drives, frequency counters, hipot testers, current probes, signal generators, logic analyzers, software duplication systems etc. Kept accurate records of all failures and repairs. Performed board rework. Component level troubleshooting in digital, analog and electromechanical devices.

R&D Lab Technician

6/80 to 1/83

Worked with engineers on various personal computer projects including MC68000 based color graphic CAD/CAM system with internal 5 1/4" floppy drives. Built, upgraded and repaired development stations. Debugged prototype logic boards, power supplies and high voltage deflection boards. Component level troubleshooting in digital and analog using oscilloscopes and logic analyzers. Wrote board testing and troubleshooting procedures. Performed thermal measurements. Failure analysis of environmental, shock/vibration and ESD testing. Design review input and new product introduction.

Board Repair - Electronics Technician

4/79 to 5/80

Component level troubleshooting in digital and analog of all MC6800 based logic boards, tape drives, power supplies and high voltage deflection boards in the 264X computer terminal line. Performed board rework. Kept accurate records of all failures and repairs. Built troubleshooting test fixtures. Used a variety of test equipment including logic analyzers, logic probes, high voltage probes, thermal probes, oscilloscopes, curve tracers, frequency counters, multimeters, LCR meters, function generators, etc. Proficient in removal and replacement of thru hole components.

Production - Electronics Technician

10/78 to 3/79

Integration, burn-in, diagnostics, board and component level troubleshooting in digital and analog on all PCA's in the 264X computer terminal line. Kept accurate records of all failures and repairs. Set display pincushioning using static magnets, set display intensity using light meters. Tested and repaired internal tape drives. Repaired QA failures and supported final test.

Education **DeVry Institute of Technology**, Phoenix, AZ
Electronics Technician Diploma 1978
Placer High School, Auburn, CA 1976

Licenses General Class Amateur Radio
1973 to present

Novice Class Amateur Radio
1971 to 1973

References furnished upon request
US Citizen with passport