TEST ENGINEER

Professional Summary

A hard-working junior engineer looking for a position in the electrical/electronics engineering field that will utilize my training and experience as well as expand my skills while meeting or exceeding company goals Skills Area of concentration in College was industrial automation and process control Experience installing and downloading Siemens, Allen-Bradley, and Omron PLCs and HMIs, as well as using the compatible software for each platform and device to develop control programs Basic communications-circuits understanding, set up tested and troubleshot digital chips and circuits Familiar with C++, Assembly Language, and Labview Strong troubleshooting skills in the areas of electrical, component, and programming Strong mechanical aptitude Experience setting up and testing various natural gas systems ie: direct, indirect, and nozzle-mix burners Installed, programmed, and tested various pieces of hardware, both AC/DC, including: power supplies, amplifiers, inverters, converters, single-board computers (did not program these), temperature controllers, VFDs, sensors, actuators, and transmitters etc. Have much experience soldering through-hole components and some experience soldering surface mount components Proficient in writing technical reports, summaries, and memorandums Demonstrated success in face-to-face customer relations Strong interpersonal skills Highly adaptable, able to come in and quickly learn new products/concepts/processes

Skills

- Microsoft PowerPoint
- Wiring schematics

Work History

08/2011 to 11/2013

Test Engineer Honda â€“ Anna , OH

- Performed final unit testing, using from 208 - 575VAC to power equipment and verify the operation of ALL aspects of the unit including damper/actuator functionality, PID loop/process operation, verifying sensor signals, setting blower rotations/phasing, assuring pressure drops are/can be met to reach design air-flows and more Verified the operation, controls, and safeties of condensing units, and electric heaters, as well as set-up and verified the operation, controls, and safeties of direct- and indirect-fired gas-burners Worked with VOC abatement equipment and oxidizers in the same fashion as the above mentioned bullet points Installed and programmed Allen-Bradley MicroLogix 1000, 1100, 1400, and CompactLogix/ControlLogix PLCs, as well as PanelView 300, and PanelView Plus 600 & 1000 HMIs, also wrote procedures for connection-to and program download of these devices in order to train service and test personnel along with performing one-on-one training Installed and programmed Siemens S7-200 PLCs, as well as Siemens TP177B and OP73 HMIs, also wrote procedures for connection-to and program download of these devices in order to train service and test personnel along with performing one-on-one training Experience and in-house training using RSLogix 500, RSLogix5000, FactoryTalk View Studio, Siemens Step7-Micro/Win, and Siemens WinnCC Flexible Compact software to develop control programs for PLCs and HMIs Was trained in the scientific principles/applications of dehumidification and on how dehumidifiers of various construction and operation accomplish dehumidification as well as the strengths and weaknesses of the different types Took part in many operational development groups/teams in order to identify, investigate, and solve production and engineering issues using the 5-why method of root-cause analysis.

07/2008 to 04/2009

Project Engineer David Evans And Associates â€“ Tustin , CA

- Participated in Several R&D projects in the defense contracting area working within a small-group environment Assured on-time assembly and delivery of prototype JP-8 fueled electrical generator sets to potential customers Altered the electrical system hardware for functional and aesthetic purposes Created documentation for the electrical system including wiring diagrams and BOM with per-unit cost analysis Involved in the testing of two different forms of an RPG defense net in both a simulated testing environment and a field testing situation using live explosives, which then went on to become Q-Net and Q-Net II Assisted in the generation of materials, test setup, and data recording for the RPG nets testing Did extensive P.O.
- generation, BOM logging, and part tracking for an upgrade to a large-scale, robotic, steam-generator cleaning system Implemented an Omron PLC and HMI to automate a pneumatically actuated machine Engineering Technician lll 7-17-08 to 4-3-09 MKS Instruments Methuen, MA Key team member of the design and engineering of a prototype FTIR gas analyzer.
- Lead technician for the FTIR engineering group.
- Wrote assembly and alignment procedures for the manufacture of the FTIR gas analyzer.
- Participated in Engineering Design Reviews.
- Assisted in the design of fixturing for assembly and alignment of FTIR systems.
- Ensured on-time delivery of the prototype FTIR gas analyzer to a key customer.
- Worked with Manufacturing Engineers on the process flow layout in preparation for the release of the Prototype gas analyzer from alpha to beta and finally to production release.
- Participated in the Product Development Plan.
- Performed Root Cause Analysis on failed units.
- Recommended Corrective Action based on assembly and alignment issues.
- Delivered reports on assembly process and updates on systems under repair.

06/2004 to 08/2007

Machine Operator/Electronics Intern Ati Metals â€“ Brackenridge , PA

- Operated various CNC machines, saws, and presses.
- Assembled and wired electrical control boxes for different machines.
- Assembled pneumatic and hydraulic valves/systems.

- Assisted electricians running conduit, pulling wires, and connecting fixtures and outlets etc.

11/2013 to Current
Product Engineer Benchmark Electronics Inc. â€“ City , STATE
Education
2008
Bachelor of Science : Electrical/Electronics Engineering Technology
Ferris State University - City , State
Electrical/Electronics Engineering Technology
A.A.S : Industrial Electronics Technology Industrial Electronics Technology
Skills
alpha, as set, assembly, AutoCAD, automate, CNC, hardware, cost analysis, delivery, Product Development, documentation, fashion, forms, FTIR, functional, layout, Lotus Notes 8.5, MA, materials, Matlab, Excel, MS Office, Outlook, Powerpoint, Win, Windows OS, Word, OrCAD, personnel, PLC, recording, robotic, RPG, scientific, Siemens, Step7, S7, Technician, upgrade, View, wiring