

Steve Staal

Industrial Automation & Controls Technician

Broomfield, CO 80020

sdstaal@gmail.com - (303) 579-5044

Areas of Expertise

Handling machine service tools (all), precision measuring devices & machine fabrication equipment. Commissioning, troubleshooting, servicing and maintaining industrial machine systems. Using DMMs, Oscilloscopes, programming/interfacing PLCs, VFDs & digital control devices. Read/write complex schematics, pneumatic/hydraulic diagrams, mechanical drawings and technical manuals. RSLogix/Studio 5000, EPLAN, PC Schematic, AutoCAD, Visio, Adobe CS Master Collection (all), Microsoft Office (all)

Willing to relocate: Anywhere

Authorized to work in the US for any employer

WORK EXPERIENCE

Patent Developer

Amp'd PC Technologies - Empire, CA -

2009-01 - Present

95319

- Conceive/develop all aspects of company products and patent technologies
- Produce and publish the company's business plan and product line patent elements
- Coordinate and execute company goals with attorneys, consultants and executives
- Patent published 10/2011: <http://patft.uspto.gov/netahtml/PTO/srchnum.htm> - 20110004716

Electronic Specialist

Ardagh Metal Packaging USA - Sparks, NV -

2016-07 - 2017-10

89434

- Machine automation fault diagnostics, electrical troubleshooting and machine repair
- Programming/electro-technical services on two/three piece can making machinery
- Preventive/reactive repairs on all line control and manufacturing equipment

NOTE: Position eliminated here due to an industry slowdown. Reference available on request.

Electrical Field Service Technician

Stolle Machinery Company - Centennial, CO -

2013-07 - 2015-12

80112

- Industrial Machine installation/commissioning, troubleshooting, warranty service
- Programming/electro-technical support, two piece can and end-making machinery
- Manage all logistics of international travel and onsite customer service

Instructor/Technical Writer/Machine Designer

Redstone College - Broomfield, CO -

2011-03 - 2013-07

80021

- Instruct industrial machine design, circuit troubleshooting techniques, IEC schematic standards and AC-DC motor/generator and industrial control system theory
- Design and construct energy control training machines for the wind energy lab
- Develop curriculum related to wind energy technology and industrial technology's
- Provide IEC & JIC schematics and teach testing of equipment controls
- Produce baseline LOTO (Lockout/Tagout) program and lab safety policies

Service Engineer/Business Owner

Trinestar - Whitehall Township, PA -

1998-01 - 2009-01

18052

- Provided service, maintenance, technician training and technical support to major beverage packaging companies with high-speed label machines worldwide
- Develop/publish technical documentation and manuals on high-speed labelers
- Managed all aspects of sole proprietor technical services business

Maintenance Supervisor

Coca-Cola Bottling Company of New York - Maspeth, NY -

1996-11 - 1997-12

11378

- Responsible for first line supervision, job effectiveness and safety of mechanics and electricians who maintained equipment within the production facility
- Assisted corporate objectives by maintaining methods, controls and standards for due diligence and actual execution records of all maintenance and repair work

Industrial Field Service Technician

Trine Labeling Systems - Fullerton, CA -

1993-02 - 1996-10

92833

- Provided emergency repairs, service, maintenance and technician training to beverage packaging companies with high-speed roll-fed label machines worldwide
- Developed/published technical information and training material for company use
- Assisted and trained new field service technicians on behalf of the company

EDUCATION

AS Degree in Wind Energy Technology in Foundations of Electronics

Redstone College - Broomfield, CO

2010-10 - 2011-12

Certificate in Gaming Machine Theory & Design

Nevada Gaming School - Las Vegas, NV

1985-01 - 1985-08

General Education Development in (GED), Passed

Modesto Junior College - Modesto, CA

1977-06

SKILLS

Industrial Electromechanical Maintenance, Electrical Schematics, Technical Training, Programming PLCs, VFDs & Digital Control Devices, Pneumatic/Hydraulic Diagrams, Commissioning/Installing Industrial Machine Systems

CERTIFICATIONS/LICENSES

Certificates, Licenses and Patents:

- Electrical Safe Work Practices, Arc Flash Protocols, 12/2016
- US Patent No.: US 8,571,237 B2 (20 Technology Claim), 10/2013
- ADVANCED FIBER OPTICS Theory and Termination Methods, 10/1012
- HYTORC Train the Trainer Course, 04/2012
- OSHA 30 Hour, Construction Safety and Health, 11/2011
- HYTORC Tool Safety Training, 11/2011
- CPR-Adult, AED-Adult, Standard First Aid, 04/2011
- Fall Protection, Wind Energy Competent Rescuer, 04/2011
- OSHA 10 Hour, Construction Safety and Health, 03/2011

ADDITIONAL INFORMATION

Journeyman level experience in industrial automation and electrical controls technologies

- Robotic systems service, troubleshooting, axis mastering, program modification
- RA Certified on AB ControlLogix systems w/RSLogix 5000 (Enet/CNet/DNet)
- +4-years hands-on industrial machine automation programming
with AS degree in Wind Energy Technology
- +2-years wind energy technology college instructor, design/prototype MCC training machines, CAD drafting IEC/DIN/JIC schematics, technical writing for training material, insured accuracy in compliance to OSHA/NFPA codes, standards and policies
- +20-years field service engineering, machine commissioning, warranty/after-sales service, process improvement, technical training operations and line start-ups in industrial manufacturing

Areas of Expertise:

Exceptionally skilled in electro-mechanical automation systems setup, industrial machine operations and maintenance

- Handling machine service tools (all), precision measuring devices & machine fabrication equipment
- Commissioning, troubleshooting, servicing and maintaining industrial manufacturing machine systems
- Using DMMs, O-scopes, programming/interfacing PLCs, VFDs & digital control devices
- Read/write complex schematics, pneumatic/hydraulic diagrams, mechanical drawings and technical manuals
- CMMS, RSLogix/Studio 5000, EPLAN, PC Schematic, AutoCAD, Visio, Adobe CS Master Collection (all), MS Office (all)