

Bill Colgan

1176 Glenn Avenue • Columbus, OH 43212 • (614) 584-1455
colganwm@gmail.com

EXPERIENCE

Tom Hatem Automotive

11/2023-Present

Auto repair shop specializing in BMW and other European automobiles

Columbus, OH

Shop Foreman

- Manage shop assets and personnel to efficiently perform repairs of varying complexity.
- Respond to customer requests for service.
- Select candidates, conduct interviews and hire new technicians.
- Troubleshoot, diagnose, and perform repairs as necessary to support technicians.
- Set budget for tool purchase, labor, and contract services.

LSP Technologies

1/2017-1/2023

Tech startup developing equipment and processes for Laser Peening

Columbus, OH

Automation Engineer

- Develop automation for effective application of laser peening to complex workpieces.
- Produce electrical schematics using Solidworks Electrical for equipment modifications, as well as scratch builds of new equipment.
- Program KUKA robots as necessary for part handling.
- Develop and implement PLC programs on Beckhoff hardware for cell automation.
- Support mechanical engineering with feedback and edit Solidworks models for new equipment builds.

Edison Welding Institute

10/2013-8/2016

Research lab dedicated to development of welding and other industrial processes

Columbus, OH

Applications Engineer

- Developed fixturing and automation in support of projects for medical, aerospace, automotive, oil & gas, consumer goods, and other industries.
- Interacted with customers and other stakeholders to develop proposals for projects that would meet their objectives while keeping to their budget.
- Developed extensive Solidworks models and drawings for production of equipment, including water-jet parts, manual and CNC machined parts, and weldments.
- Utilized outside contract labor for machining and water-jet cutting.
- Coordinated machinist, fabricator and technician activity on project implementations.

Prime Equipment Group

8/2012-10/2013

Designer and manufacturer of food processing equipment for the poultry industry

Columbus, OH

Project Engineer

- Designed new equipment for washdown-compliant poultry processing facilities.
- Proposed and developed improvements to existing machinery, produce drawings necessary to build prototypes, and conduct testing both in-house and in the field.
- Interacted with customers to assemble specifications and identify demands unique to each application in order to deliver workable mechanical solutions.
- Specified controls and power requirements for new designs.
- Traveled onsite for hands-on machine testing, development, and product support.
- Coordinated machinist, fabricator and technician activity on project implementations.

TS Tech North America*Tier 1 supplier of Honda automobile seats***Staff Engineer****8/2009–8/2012**

Columbus, OH

- Designed and integrated unique manufacturing equipment for use in mass production.
- Completed real-world, hands-on prototyping of new concepts via fabrication and machining methods for testing, before implementation in full-scale production.
- Programmed PLCs using Omron CX One software and Mitsubishi GX Developer.
- Designed and detailed weldments, machined and formed components and assemblies.
- Produced Solidworks models of components and assemblies for construction.
- Created Bills of Materials for projects and issued necessary purchase orders.
- Supervised construction and implementation of new equipment, and ultimately startup of production on factory floor.

Rimrock Corporation*Supplier of robotic automation equipment to the diecasting industry***Project Engineer****8/2004–12/2008**

Columbus, OH

- Designed robotic manufacturing systems including electrical schematics and mechanical components.
- Developed equipment schematics using AutoCad Electrical.
- Programmed ABB and Yaskawa Motoman robot controllers and other Allen Bradley PLCs as necessary to integrate mechanical and electrical assemblies.
- Completed hands-on, real-world troubleshooting on shop floor as equipment was being built, and in diecasting shops where the equipment was ultimately deployed.

Showa Aluminum Corporation of America*Tier 1 supplier of Honda air conditioning components***Manufacturing Engineer****11/2002–12/2003**

Mount Sterling, OH

- Engineered equipment improvements on stamping and vacuum brazing operation.
- Implemented process changes for lean manufacturing.
- Completed redesign and improvement of existing equipment.
- Selected and supervised contractors on production line changes.
- Coordinated maintenance and technician activity on project implementations.

EDUCATION**University of Cincinnati***BSMET***1/1997–6/2002**

Cincinnati, Ohio

- Relevant Coursework: PLC Programming, Fluid Mechanics, Design of Machine Elements, Product Development, Material Stress and Strain, Manufacturing Processes, Thermodynamics, and CNC and manual machining.