

Taylor J Turner

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Software and Electrical Controls Engineer with extensive experience
leading technical projects and developing innovative software solutions.

Skills

Highly skilled in diverse programming languages.

• C# • Python • T-SQL • TypeScript • IEC 61131-3 Automation Standard

Experience with various frameworks and libraries.

• ASP.NET Core • Entity Framework • Flask • React.js • Fanuc PCDK • Pylogix • gRPC

Proficient using development tools and environments.

• Visual Studio/Code • Git • Github • Azure • Vercel • Postman

• Studio 5000 • TwinCAT • TIA Portal • Ignition Designer • Indusoft

Strong background in methodologies and concepts.

• Agile/Sprint • Object-Oriented Programming (OOP) • REST API

• Failure Modes and Effects Analysis (FMEA) • UL 508A • SCADA • Project Management

Work Experience

Bastian Solutions - Software Engineer

September 2022 – Present

- Developed software for manufacturing applications and interfacing automation controllers, robots, and vision systems.
- Migrated palletization applications from WinForms to .NET Core, Entity Framework Core, and Next.js/React.js frameworks.
- Created Python/C++ clients to support warehouse management systems' communication with peripheral devices. The integration of this software required threaded processes, real-time resource locking, and micro-controller-controlled HID interfaces.
- Enhanced robot picking applications to bridge device communication using Python.
- Transitioned products from R&D to manufacturing, focusing on continuous improvement in integration testing and product statistics.

Electrical Controls Engineer II - Beckwood Press

October 2021 – September 2022

- Designed numerical and computational methods for sensor filtering and linearization.
- Developed embedded closed-loop algorithms for output modeling and discrete kinematic control.
- Created databases for machine parameterization and programming.
- Led machine performance studies on new product lines for application in the marketplace.

Electrical Controls Engineer I - Beckwood Press

October 2017 – October 2021

- Oversaw the electrical design and program development of hydraulic processes and automation integration. Custom design structure allowed rapid development of custom processes and competitive integration.
- Developed electrical design standardization under UL 508A specification and certification.
- Led machine start up and final acceptance testing. It is rewarding to demonstrate high performance processes and quality designs to customers.

Electrical Controls Technician - Beckwood Press

October 2016 – October 2017

- Facilitated communication between engineering and production through documentation and process management.
- Began developing electrical designs and programming solutions. Growth within the organization allowed me to demonstrate decision making responsibilities, leadership, and a passion.
- Assisted with process and programming troubleshooting for customers.

Electrical Controls Electrician - EPIC Inc.

December 2014 – October 2016

- Assembled and designed electrical panels and machine wiring for pilot plants, vision systems, and custom machines.
- Implemented designs conforming to sanitary/wash-down, Class I Division I, and National Electric Code requirements.
- Assisted engineering during start-up and final acceptance testing.
- Cross-trained in process design.

Technical Reference - Pristine STL

- Developed the company website using React.js, Python and Vercel for deployment. pristinestl.com
- Configured Google Ads to generate new leads. Messaging features allow clients to request REST API calls to Vercel's serverless functions and Python email service.

Education

Ranken Technical College - Associate Degree in Electrical Control Systems

December 2014

Volunteer

Offensive/Defensive Line Football Coach - Titans of Troy, IL