

# Taylor J Turner

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Software and Electrical Controls Engineer with experience in advanced logistic applications, hydraulic control systems, and chemical process instrumentation.

## 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 • SQLAlchemy • fastAPI • gRPC • React.js • Angular

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) • Failure Modes and Effects Analysis (FMEA)

• UL 508A • SCADA • Project Management

## Work Experience

### Bastian Solutions - Software Engineer

*September 2022 – Present*

- Developed software for advanced logistic applications, ensuring smooth integration with warehouse management systems, automation controllers, robots, and vision systems.
- Leveraged Azure cloud resources for blob storage and containerization for deployment, enabling enterprise level software development.
- Migrated palletization applications from WinForms to modern frameworks such as .NET Core and React.js or Angular, improving performance and scalability.
- Created clients to communicate between a warehouse management system's server to peripheral devices, incorporating API brokers, real-time resource management, and micro-controller-controlled HID interfaces.
- Transitioned products from research and development phase to manufacturing, with a focus on enhancing integration testing methodologies and leveraging product statistics for continuous improvement initiatives.

### Electrical Controls Engineer II - Beckwood Press

*October 2021 – September 2022*

- Developed embedded closed-loop algorithms for output modeling and discrete kinematic control.
- Designed numerical and computational methods for sensor filtering and linearization.
- 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 electrical and programming structure allowed rapid development of custom processes and competitive integration.
- Developed electrical design standardization under UL 508A specification and certification.
- Led press and 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.

## Education

Ranken Technical College - Associate Degree in Electrical Control Systems

December 2014

## Volunteer

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