

Taylor Turner

Software Engineer

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EXPERIENCE

BASTIAN SOLUTIONS | SOFTWARE ENGINEER

1 year | September 2022 – Present | Maryland Heights, MO

- Developed software for manufacturing applications and interfacing automation controllers, robots, and vision systems.
- Migrated a palletization application from WinForms to .NET Core and Next.js/React.js frameworks.
 - Reactive pallet pattern editing
 - Real-time peripheral device interrupts
 - Entity Framework Core relational database
 - REST API methods
 - Utility Patented
- Enhanced a robot picking application to bridge device communication using Python.
 - Vision system communication with gRPC
 - Automation Control with OPC UA and Pylogix
 - Serial buffering to robots
 - Statistical data analysis of picking performance
 - Vision A.I. annotation
- Created a Python/C++ application utilizing threaded processes, real-time resource locking, and micro-controller-controlled cursor commands to manage a warehouse interface and queue robot parameters.
- Transitioned products from R&D to manufacturing, focusing on continuous improvement in integration testing and product statistics.

PRISTINE STL | CHIEF TECHNOLOGY OFFICER

3 years | December 2020 – Present | St. Louis, MO

- Proudly provide technology solutions for our family business.
- Created and maintain the development and promotion of Pristine's website pristinestl.com
- Deploy software as a service solutions for the owner, crews and customers.

BECKWOOD PRESS | ELECTRICAL CONTROLS ENGINEER II

6 years | October 2016 – September 2022 | Fenton, MO

- Designed electrical systems for 50+ custom hydraulic and servo presses.
- Programmed controls applications using automation controllers.
 - Procedural logic for discrete systems
 - Sensor filtering and linearization
 - Machine parameter databases
 - Closed-loop motion control
- Facilitated team collaboration to understand and prioritize low-level solutions. Our team grew design processes for accelerated development and integration.
- Led product performance publications. Extensive data collection, white-papers and marketing strategy showcased product performance and competitiveness within the marketplace.

EPIC INC. | ELECTRICAL CONTROLS TECHNICIAN

2 years | December 2014 – October 2016 | St. Louis, MO

- Oversaw the assembly and design of electrical panels and machine wiring.
 - Pilot plants
 - Vision systems
 - Custom Machines
- Implemented designs that conformed to sanitary/wash-down, Class I Division I, and National Electric Code requirements.
- The multidisciplinary nature of these products gave the opportunity to be cross-trained in mechanical and process design.

SKILLS

PROGRAMMING LANGUAGES

• C# • Python • C/C++ • SQL Server
• TypeScript • HTML • JavaScript
• Automation Controllers • Visual Basic
• Blazor • PowerShell • LaTeX

FRAMEWORKS AND LIBRARIES

• ASP.NET Core • Entity Framework
• Flask • gRPC • Node.js • React.js
• Next.js • CxDriver • Interop.FRRobot

DEVELOPMENT TOOLS AND

ENVIRONMENTS

• Visual Studio • VS Code • Git
• Postman • Swagger • Vercel • GitHub
• Azure • Studio 5000 • TIA Portal
• Ignition Designer • Indusoft • TexMaker

METHODOLOGIES AND CONCEPTS

• Agile/Sprint • Object-Oriented Programming (OOP) • Failure Modes and Effects Analysis (FMEA) • UL 508A
• SCADA • Project Management

EDUCATION

RANKEN TECHNICAL COLLEGE

ASSOCIATE'S DEGREE:

ELECTRICAL CONTROL SYSTEMS

December 2014 | St. Louis, MO

VOLUNTEER

Offensive/Defensive Line Coach,

Titans of Troy, IL