

# 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 | October 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](http://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