Taylor Turner

Software Engineer

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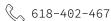
EXPERIENCE

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
- Entity Framework Core relational database
- Utility Patented
- Real-time peripheral device interrupts
- REST API methods

➔ Enhanced a robot picking application to bridge device communication using Python.
- Vision system communication with gRPC
- Serial buffering to robots
- Vision A.I. annotation
- Automation Control with OPC UA and Pylogix
- Statistical data analysis of picking performance

➔ Improved interoperability among peripheral devices and automated statistical data collection for tracking performance.

➔ Transitioned products from R&D to manufacturing, focusing on continuous improvement in integration testing and product statistics.

BECKWOOD PRESS | Electrical Controls Engineer
6 years | October 2016 – September 2022 | Fenton, MO

➔ Designed electrical systems for custom hydraulic and servo presses.

➔ Programmed controls applications using automation controllers.
- Procedural logic for discrete systems
- Sensor filtering and linearization
- Closed-loop motion control (PID-feedforward)
- Operator U.I. ergonomics
- Machine parameter databases

➔ 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.

PRISTINE STL | Chief Technology Officer (Techno Dad)
3 years | December 2020 – Present | St. Louis, MO

➔ Pridefully provide technology solutions for our family business.

➔ Created and maintain the development and promotion of Pristine's website pristinestl.com

➔ Deploy calendar and schedule solutions for the owner and crews.

SKILLS

PROGRAMMING LANGUAGES
Proficient:
- C# • Python • SQL Server • TypeScript
- HTML • JavaScript • Automation Controllers

Familiar:
- C/C++ • Visual Basic • Blazor
- PowerShell • LaTeX

FRAMEWORKS AND LIBRARIES
- ASP.NET Core • Entity Framework
- Flask • gRPC • Node.js • React.js
- Next.js • ClxDriver • Interop.FRRobot

DEVELOPMENT TOOLS AND ENVIRONMENTS
- Visual Studio • VS Code • Git
- Postman • Swagger • Vercel • GitHub
- Azure • 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