Taylor Turner

Software Engineer

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EXPERIENCE

BASTIAN SOLUTIONS | SOFTWARE ENGINEER
1 year | September 2022 – Current | Maryland Heights, MO

- → Develop middle-ware solutions for peripheral robots, automation controllers, and vision systems using Python and .NET C#.
- → Design tools to aid robotic control and its product mission data. An AI was created to control robot acceleration by grading product fixturing confidence of the robot's EOAT.
- → Transition R&D products to manufacturing by providing continuous improvement in debugging communication and product statistical changes.

BECKWOOD PRESS | ELECTRICAL CONTROLS ENGINEER
6 years | October 2016 – September 2022 | Fenton, MO

- → Developed numerical methods and closed-loop control to operate custom hydraulic and servo automation systems. Kinematic, filtering, and linearization algorithms led to significant improvement in material forming specifications.
- → Facilitated collaboration to learn and prioritize low-level solutions. Our team helped grow design structures intended for rapid development and integration. We also created analytic tools from extensive data collection to showcase product performance and competitiveness within the market.
- → Demonstrated machine and process specification during final acceptance testing with customers and provided additional deliverables for existing designs.

EPIC INC. | ELECTRICAL CONTROLS TECHNICIAN
2 years | December 2014 – October 2016 | St. Louis, MO

- → Assembled and designed electrical panels and machine wiring for pilot plants, vision systems, and custom machines. The multidisciplinary designs of the products gave the opportunity to be cross-trained in mechanical and process design.
- → Implemented designs that conformed to sanitary/wash-down, Class I Division I, and National Electric Code requirements.

PROJECTS

STACK | C#, SQL SERVER, REACT.JS
2023

- → Pattern creation and solving web application that bridges a warehouse management system's palatalization orders to location and orientation robot commands.

PICK | PYTHON
2022

- → Middle-ware to interface various vision system pick parameters with robots and automation controllers.

LIAISON | C#, BLAZOR
2022

- → Software used to felicitate traffic logic for Automated Guided Vehicles. The software provides a custom traffic logic configuration and can interface with third party traffic logic servers.

MOTION | AUTOMATION CONTROLLER/PASCAL
2018

- → Motion controller tailored for hydraulic position, velocity, and force control, set point modeling, and feedback tuning.

SKILLS

PROGRAMMING

Proficient:
C# • Python • SQL • TypeScript
React.js • Automation Controllers

Familiar:
C/C++ • Visual Basic • HTML
Blazor • Shell • LATEX

LIBRARIES/FRAMEWORKS

ASP.NET Core • Node.js • Flask

DEVELOPMENT TOOLS

Git • Azure • Visual Studio

METHODOLOGIES

Agile/Sprint • Waterfall • OOP
FMEA • UL 508A • SCADA •
Project Management

EDUCATION

RANKEN TECHNICAL COLLEGE
ASSOCIATE'S IN ELECTRICAL CONTROL SYSTEMS
December 2014 | St. Louis, MO

VOLUNTEER

Offensive/Defensive Line Coach,
Titans of Troy, IL