Taylor Turner

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**Electrical Controls Engineer / Software Developer**

Versatile and resourceful Electrical Controls Engineer with an extensive foundation working with high performance teams and leading technical projects from concept to completion. Technically oriented and collaborative with skills in communicating effectively with individuals as well as groups at all levels throughout the organization. Highly productive, creating innovative software solutions with tenacious debugging skills. Extensive skills in:

Languages: Structured Text, C/C++, Python, Visual Basic, Structured Query (SQL)

Platforms: Industrial Automation IDEs, TwinCAT, Eclipse IDE, FreeRTOS, Visual Studio, MathLAB

CAD: SolidWorks Electrical, AutoCAD Electrical

Protocols: TCP/IP/EtherCAT, SPI/SSI, RS232, FTP

Hardware: Allen-Bradley, Beckhoff, Siemens, ESP32, Arduino

Methodologies: Agile/Sprint, Waterfall, Object Oriented Programming, FMEA, UL 508A Certification, IEC 61131-3

Tools: Closed Loop Control & Modeling, Numerical Analysis, SCADA, Project/Process Management, Quotation/Proposal Estimating

**Work Experience:**

Electrical Controls Engineer II · Beckwood Press · October 2021 – Present

Electrical Controls Engineer I · Beckwood Press · October 2016 – October 2021

* Research Development
  + Design numerical and computational methods for input filtering, discrete kinematics, and linearization.
  + Develop embedded closed loop algorithms for output modeling and control.
  + Collect comprehensive data to optimize performance and market accuracy, proving a robust product.
  + Built a standard, cross-platform database for machine parameterization and programming.
  + Lead team collaboration to learn and prioritize low-level level solutions.
* Production Development
  + Produced 50+ full-stack electrical and programming designs for hydraulic and automation processes.
  + Establish template programs on new platforms to combat supply chain issues.
  + Grow project design structures, allowing rapid development of custom processes and competitive integration.
  + Developed electrical design standardization under UL 508A specification and certification.
  + Lead machine start up after production and final acceptance testing with customers.
  + Refine existing and repeat designs, creating additional deliverables for the service department.

Electrical Controls Technician · EPIC Inc. · December 2014 – October 2016

* Production Development
  + Assembled and designed electrical panels and machine wiring for pilot plants, vision systems, and custom machines.
  + Implemented designs that conformed to sanitary/wash-down, Class I Division I, and National Electric Code requirements.
* Engineering Development
  + Assisted engineering during start-up and final acceptance testing.
  + Cross-trained in process design.

**Education:**

Associate Degree in Electrical Control Systems · Ranken Technical College · December 2014

**Volunteer:**

Offensive/Defensive Line Coach · Titans of Troy, IL