Addison Smith

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SUMMARY

Controls Engineering Technician and Software Developer bridging industrial automation and intelligent software. Hands-on experience designing and commissioning PLC control systems in Studio 5000, building HMI/SCADA interfaces in FactoryTalk View, and deploying computer vision inspection systems in manufacturing. Currently pursuing a BS in Information Technology (AI/ML concentration) with a 4.0 GPA. Proven ability to move between factory floor and codebase, solving problems where physical systems and software meet.

TECHNICAL SKILLS

Programming: Python, TypeScript, JavaScript, SQL, HTML/CSS, Ladder Logic, Structured Text, Function Block, Git, GitHub

Automation & Controls: Studio 5000 Logix Designer, FactoryTalk View, Allen-Bradley CompactLogix/ControlLogix, PLC Programming & Commissioning, Industrial Wiring (110V-480V), UL508A Panel Build, System Integration, Ignition SCADA

Protocols: Ethernet/IP, Modbus TCP/RTU, OPC-UA, BACnet, TCP/IP, Industrial Networking

Data & AI: Machine Learning, Computer Vision, Defect Detection, Data Analysis, LLM APIs, Agentic Systems

Frameworks & Platforms: React, Next.js, Tailwind CSS, FastAPI, Supabase, Vercel, CrewAI, Ollama, Linux, Windows, Oracle Apex

EXPERIENCE

Controls Engineering Technician | Daedalus Industrial

Easley, SC | Sep 2025 - Present

Controls Engineering:

- Program and commission PLC systems in Studio 5000 Logix Designer (CompactLogix/ControlLogix), including sequencer logic, PIDE loops, valve control, and pump control routines
- Design and deploy HMI interfaces in FactoryTalk View for operator monitoring and process control in regulated manufacturing environments
- Execute wiring, setup, and testing of control panels for automation and R&D projects, following UL508A and NEC safety standards
- Commission systems on site, including tank farm automation using Ethernet/IP and Modbus TCP protocols

Machine Learning & Software Development:

- Built and deployed computer vision inspection systems for real-time defect detection in manufacturing (golf ball sorting, panel component verification)
- Developed an L5X generator that programmatically creates Rockwell Ladder Logic by ingesting existing L5X project files and building new programs from templates for direct import into Studio 5000
- Designed a multi-agent AI system (CrewAI/Ollama) for engineering automation, including vision analysis, code generation, and task orchestration across specialized teams
- Support data collection, labeling, and model training to improve detection accuracy across production lines

Electrical Technician | AIRSYS USA

Anderson, SC | Jun 2024 - Sep 2025

- Provided R&D support for cooling systems used in chip fabrication and data center applications

- Built and wired control panels operating from 110V to 480V for production and prototype units
- Read schematics, troubleshot electrical systems, and configured sensors during prototype testing
- Collaborated with engineers on prototype testing, system updates, and validation

Wiring Technician | **Vertiv**
Anderson, SC | Sep 2023 - Jun 2024

- Wired industrial switchgear systems (MV/LV, UPS, ATS) following detailed schematics and NEC safety codes
- Performed quality checks and documentation to ensure accuracy and reliability of panel assemblies
- Gained direct experience with data center critical power infrastructure and Vertiv product lines

PROJECTS

- Chalk - Football Intelligence Platform: Building a coaching workspace with three modules (Film Room, Board, Playbook) using Next.js, React, TypeScript, Tailwind CSS, Supabase, Vercel
- Smith_Agentic - Multi-Agent AI System: Designed a modular multi-agent architecture with 20 agents across four specialized crews (Default, PLC, React, Vision) built with CrewAI and Ollama
- L5X Ladder Logic Generator: Python tool that ingests Rockwell L5X files, builds new PLC programs from templates, and exports for direct import into Studio 5000
- Sift - Restaurant Discovery App: Mobile app using AI to recommend restaurants based on menu scanning and user preferences (Expo/React Native, Supabase, Gemini API)

EDUCATION

Bachelor of Science in Information Technology | **ECPI University**
AI/ML & Data Analytics Track | 4.0 GPA | Feb 2027 (Expected)

Associate of Science in Mechatronics, Robotics & Automation Engineering | **Piedmont Technical College**
3.8 GPA | Jan 2019

CERTIFICATIONS

- Ignition Core Certified - Inductive Automation (May 2026)
- Building Agentic AI Applications with LLMs - NVIDIA Deep Learning Institute (Apr 2026)
- Fundamentals of Deep Learning - NVIDIA Deep Learning Institute (Feb 2026)
- Foundation: Introduction to LangChain - Python - LangChain Academy (May 2026)
- Model Context Protocol: Advanced Topics - Anthropic (May 2026)
- Introduction to Model Context Protocol - Anthropic (Apr 2026)
- Expert Panel Contributor, Data Center Cooling - Mordor Intelligence (Sep 2025)