

EVAN BRIGHT

SOFTWARE & SYSTEMS ENGINEER • ELECTRICAL ENGINEER

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ENGINEERING PROFILE

Software and systems engineer spanning enterprise software, electrical engineering, payment systems, hardware integration, industrial controls, and high-availability retail infrastructure. Experienced in modernizing decades-old production systems, restructuring large codebases, integrating new hardware while preserving legacy compatibility, and hardening transaction flows against fraud and financial-loss scenarios. Takes ownership of difficult engineering problems from architecture through testing, certification, deployment, and production support.

PROFESSIONAL EXPERIENCE

Engineer, Store Systems | AutoZone, Inc.

Memphis, TN | May 2023 - Present

- ◆ Architected major restructuring of AutoZone's store-side software ecosystem, reducing duplicated logic and creating cleaner boundaries between applications, shared services, and physical hardware.
- ◆ Independently redesigned receipt printing into a printer-agnostic architecture, replacing hardware-specific implementations with a centralized abstraction for current and future printer models.
- ◆ Completed and delivered a USB printer and cash-drawer modernization effort that had remained in development for approximately four years, removing a hardware dependency blocking new store configurations.
- ◆ Engineered backward-compatible peripheral support across roughly 40 years of store hardware, allowing modern USB devices and legacy serial equipment to coexist without disrupting operations.
- ◆ Led specialized engineering work to bring Land7000 payment terminals into compliance and production, including in-house payment-device integration and certification responsibilities rarely performed by retailers.
- ◆ Hardened returns and imported-cart processing against fraud and financial-loss scenarios, correcting tax, price, and rate inconsistencies that could create incorrect or exploitable refund totals between stores.
- ◆ Contributed to AutoZone's AI development efforts, helping build and integrate AI-driven capabilities into internal engineering workflows and production-facing systems while working within enterprise security and reliability constraints.
- ◆ Mentored and coordinated up to 12 interns, providing technical direction, project planning, code guidance, and alignment with production engineering objectives.

Legacy Systems IT Intern | AutoZone, Inc.

Memphis, TN | June 2022 - May 2023

- ◆ Built production dashboards, automated test tooling, and diagnostics that improved release confidence and visibility into store-system and data-pipeline issues.
- ◆ Contributed to legacy modernization while investigating production issues across software, infrastructure, and store environments.

AI Model Development Contractor | OpenAI

Contract / Project-Based

- ◆ Performed contract model-development work supporting OpenAI, contributing engineering-domain expertise, technical research, and model training/evaluation feedback used to improve model capabilities.
- ◆ Independently trained and evaluated open-weight models, building hands-on experience with model behavior, dataset design, experimentation, and practical deployment tradeoffs outside of hosted AI platforms.

Controls Engineering Intern | EAD

Memphis, TN | May 2021 - January 2022

- ◆ Designed and implemented PLC, HMI, industrial networking, and electrical-control solutions for manufacturing environments, including restoration and modernization after major facility damage.
- ◆ Coordinated technicians, vendors, contractors, and plant personnel through installation, commissioning, troubleshooting, and safety/regulatory requirements.

Electrical Engineering Intern | R&N Designs

Memphis, TN | February 2020 - August 2020

- ◆ Designed electrical, security, fire-alarm, and control systems for correctional and government facilities using AutoCAD and Revit.
- ◆ Collaborated with architects, law-enforcement stakeholders, contractors, and engineers to translate operational and security requirements into technical designs and field installations.

TECHNICAL EXPERTISE

SOFTWARE C++ • C • Python • TypeScript • React • Node.js • SQL • REST APIs • Automated Testing

HARDWARE Payment Terminals • Receipt Printers • Cash Drawers • USB/Serial • Linux udev • PLCs • HMIs • Embedded Systems

SYSTEMS Linux • Oracle Enterprise Linux • Ubuntu • POS Systems • Networking • TLS/Certificates • Docker • CI/CD

SPECIALTIES AI/LLM Development • Open-Weight Model Training • Payment Systems • Fraud/Loss Prevention • Hardware Abstraction • Legacy Modernization

EDUCATION & CERTIFICATIONS

Christian Brothers University

B.S. Electrical Engineering & Computer Science | May 2023

Minors: Mathematics & History

CompTIA A+ • Network+ • Security+

Google Cloud Associate Cloud Engineer

Google Python Automation

IBM Full Stack Engineering / Cloud Computing

OSHA 10 Safety Certification