

PRECIOUS ONOJERAME

Embedded & Autonomous Systems Engineer

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SUMMARY

Computer Science and Electronics Engineering Technology double-major with hands-on semiconductor manufacturing experience as an Electronics Technician at Intel. Builds control-oriented software that connects embedded state machines, electromechanical actuators, safety interlocks, telemetry, and operator interfaces.

TECHNICAL PROJECTS

AMHS FOUP Digital Twin | Python, Controls, Robotics, HMI | [GitHub](#)

- Modeled semiconductor-fab FOUP dispatch and multi-vehicle overhead hoist transport using a deterministic microcontroller-style finite-state machine.
- Implemented acceleration-limited servo-drive dynamics, position feedback, timed hoist actuator sequencing, target-crossing detection, and E-stop interlocks.
- Built a real-time browser control room with animated OHT motion, JSON telemetry, speed controls, fault injection, six automated tests, and GitHub Actions CI.

Prisca SPY Predictor | Python, FinBERT, XGBoost, NLP

- Collaborated on a machine-learning pipeline using financial news sentiment and historical market data to forecast next-day SPY opening price.

EXPERIENCE

Electronics Technician | Intel

Current | Semiconductor Manufacturing

- Support advanced instrumentation and manufacturing-grade processes in a high-reliability semiconductor environment.
- Apply hardware/software troubleshooting, safety discipline, and structured diagnostics to complex electronic systems.

Software Engineer | Clear View RV Glass

Albuquerque, NM | Nov 2022 - May 2024

- Designed, developed, maintained, and troubleshooted the company website; delivered responsive features while improving reliability, security, and performance.

ADAS Calibration Expert | Auto Glass Now

Albuquerque, NM | Dec 2020 - Oct 2022

- Calibrated camera and sensor systems for Advanced Driver Assistance Systems and trained technicians on tools, procedures, and safety standards.

EDUCATION & CERTIFICATIONS

Eastern New Mexico University | B.S. Computer Science + Electronics Engineering Technology

Expected May 2027 | Coursework: embedded systems, digital circuits, control theory, algorithms, and data structures

Cornell University | Machine Learning Foundations Certificate | Aug 2025

MIT xPRO | Full Stack Software Development Certificate | Dec 2021

TECHNICAL SKILLS

Embedded & controls: Microcontrollers, Arduino, finite-state machines, PID/servo concepts, sensors, actuators, interlocks, digital circuits, VHDL

Software: Python, C, C++, Java, JavaScript, HTML/CSS, Git, Linux, Docker, REST APIs, unit testing, CI/CD

Data & AI: NumPy, Pandas, scikit-learn, TensorFlow, NLP, feature engineering, model evaluation