

Nathaniel Morris

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Education

Bachelor of Science - Electrical Engineering and Computer Engineering, Expected 6/2027

Western Washington University

- GPA 3.7
- Electronics, AI/ML Focus
- Minor in Computer Systems and Math

Projects

Capstone Project: Autonomous Parking Enforcement 6/2026-Present

Western Washington University

- Goal: Producing a fully functional, autonomous robot that enforces parking through Image Recognition.
- Designing cross-platform software as well as OCR, Value Iteration, and wireless streaming.

EKG AI Cybersecurity Threat Detection 2/2026-Present

Western Washington University

- Designing server-side and edge-side devices for the detection of anomalies in medical sensors.
- Developed test waveforms and verified pre-built models for the detection of anomalies.
- Lead Professor Shakil Mahmud

LoRa Antenna Cow Tracking 2/2026-6/2026

Western Washington University

- Assembled LoRa Relay and Solar Panel PCBs with the goal of tracking cattle tags.
- Coded an ESP32 using C+ code on Arduino IDE to interface with LoRa and Starlink systems.
- Results: Completed successfully. Lead Professor: John Lund

AM Radio Receiver 9/2025-12/2025

Western Washington University

- Created and tuned AM Radio receiver using breadboarding, KiCad and soldering.
- Built amplifier circuit alongside envelope filter and driven audio op amp. Results: Completed Successfully.

Microcontroller with Antenna 10/2024-12/2025

Western Washington University

- Programmed receiving antenna on a microcontroller, using TeraTerm and STM32Progammer to connect board.
- Goal: decreasing power demand for receiving data on Arduino platform using STM32Duino and Radiolib.

Experience

Work-Planning Group Intern 6/2026-Present

ANR Group Inc – Subcontracted to Navarro-ATL

- Utilizing Microsoft Power Automate, AI Builder, and OfficeScript systems to generate automated workflows.
- Gaining experience in Ladder Logic Diagrams, Relay based Systems and Electrical and Mechanical AutoCAD.
- Performing calculations for attenuation of antenna enclosures through datasheet review.

Physics Tutor Lead 9/2025-Present

Western Washington University

- Interviewed, Onboarded, and Manages T1 tutoring schedules and tutors.
- Tutoring Math, Physics, Circuit Analysis and various Electrical Engineering concepts.

Skills

Software: Fusion 360, LTSpice, RTOS, MATLAB, Microsoft Office, KiCad, GitHub, gdb, MCUXpresso

Hardware: Microcontrollers, STM32, 3D Printing, PCB Assembly, RaspberryPi, NXP Boards

Programming Language: C, Java, Python, ARM-Assembly, System Verilog, Matlab, JavaScript

Lab Equipment: Soldering, Spot Welding, VNA, FPGA, Spectrum Analyzer, CNC Mill, Chopsaw