

NATHAN ROWLEY, EIT

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PROFESSIONAL SUMMARY

Experienced Electrical & Instrumentation Engineer with 3+ years in electrical, IT, and control systems within chemical manufacturing environments. Currently pursuing a Master's in Computer Science at UT Austin. Proven expertise in technical documentation, CAD redlining, on-site troubleshooting, and leading deployment initiatives. Familiar with network infrastructure, software systems, and collaborative multidisciplinary projects. Passionate about robotics, automation, and continuous field improvements.

EDUCATION

M.S. Computer Science, University of Texas at Austin - **4.0 GPA** **2024 – Present**
Courses: Machine Learning, Android Dev, Advanced Linear Algebra, Deep Learning (IP)
B.S. Electrical Engineering, Louisiana Tech University - **4.0 GPA** **2022**
Courses: Microprocessors, Digital Design, Solid-State Electronics, Discrete Math

EXPERIENCE

Electrical & Instrumentation Engineer **2022 - Present**
Eastman Chemical Company - Longview, TX

- Led \$20M in capital projects, achieved \$150k cost savings
- Redlined CAD drawings; collaborated with drafters for installation packages
- Drafted and revised SOPs for field instrumentation and safety compliance
- Deployed and troubleshot PLC, DCS, and power systems in field environments
- Supported network switch installations and security system integrations
- Partnered with operations and maintenance to improve plant uptime and reliability

Software & Design Engineering Intern **2021 - 2022**
Sabre Industries - Ruston, LA

- Developed Python program for sizing battery management systems' busbar ampacities
- Designed a modular battery and HVAC system that can be mass produced

Technical Projects

Smart Thermostat (2023): Built IoT thermostat on Raspberry Pi with web-based control, integrated DHT22 sensor, LCD, and relay switching
Capstone (2022): Developed wearable device that harvested leg motion into battery-stored electricity using magnets and coils

AWARDS & CERTIFICATIONS

EIT – TX Board of Professional Engineers (2023) • ML Specialization – Stanford (2024)
CS50x – Harvard (2023) • Outstanding Senior – LA Tech Engineering (2022)