

Braden N. Queen

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Education

Georgia Institute of Technology | Atlanta, GA
Bachelor of Science in Electrical Engineering

Expected Graduation December 2026

Skills

Technical Skills: Python, Autodesk Revit, Office 365, Microsoft Active Directory, PowerSchool SIS, Quartus, MiaSm, Maximo

Business Skills: Design Proposals, Technical Presentations, Leadership, Problem Solving, Communication, Delegation

Platforms: Windows, MacOS, Linux (Ubuntu), ChromeOS

Languages: English, German (conversational)

Professional Experience

Tennessee Valley Authority | Chattanooga, TN

May 2024 – Present

Electrical Engineering Intern - Transmission Service

Supported system administration and technical operations for TVA substations, ensuring reliable power and telecom services across high-voltage sites, including projects upgrading infrastructure.

- Supported system administration and technical operations for TVA substations, ensuring reliable power and telecom services across high-voltage sites.
- Worked with electricians, technicians, and engineers on retiring outdated hardware and upgrading infrastructure.
- Gained hands-on experience with switches, relays, SCADA systems, DPUs, and converting I/O modules to SEL DPAC for enhanced digital protection and control.
- Facilitated the replacement of TDP T-1 card hardware with Fujitsu 4100 systems and the setup of Ciena 3900 Ethernet transports, improving substation communication.
- Completed work orders, maintenance, and system updates, ensuring service reliability and adherence to safety protocols.

Walker County Board of Education | LaFayette, GA

March 2023 - August 2023

Technology Specialist

Local school district responsible for system administration and technical support serving 15 schools with 8,500 students with a one-to-one device policy

- Managed educational technology for 15 schools, serving 8,500 students in a one-to-one device program.
- Led the transition to paperless enrollment and digital student information cards, enhancing data management and emergency response.
- Implemented strategies to optimize technology integration within the curriculum, fostering a dynamic learning environment.

Projects

ACE (Architecture, Construction, and Engineering) Mentor Program of Chattanooga

August 2021 – February 2022

LaFayette High School Team Member

- Strengthened time management and problem-solving skills to meet weekly project deadlines.
- Charged with leading specific areas of the project, while working in a variety of positions to gain experience.
- Exceeded project requirements leading to a win against over competing teams.

Relevant Coursework

Programming for Hardware/Software Systems: An in-depth study on software development for hardware platforms, highlighting high-level programming, operating systems, and C and MIPS assembly language, with an emphasis on performance optimization and storage management on hardware systems.

Digital Design Laboratory: Focus on digital system design and implementation, this course offers hands-on experience with CAD tools, logic synthesis, assembly language programming, VHDL programming, and FPGA board implementation.

Introduction to Computing: Introduction into Python and an exploration of HTML, CSS, and Javascript to be prepared to work in a professional workplace.

Activities and Leadership

Energy Club | Atlanta, GA

August 2023 - Present

VP of Communications

- Managing all internal and external communications with students, faculty, and other stakeholders in industry.
- Co-managed the 2024 Southeastern Energy Conference which includes outreaching to industry professionals and companies, managing the logistics for the day-of, website development, and social media presence to market the event.

B.R.A.V.E Peer Educator | Atlanta, GA

August 2023 - Present

- Educating and empowering Georgia Tech students to prevent sexual violence through bystander intervention, healthy communication, and consent education.