

Chase Lotito

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OBJECTIVE

Student looking to obtain an electrical engineering internship to hone my leadership, communication, and problem-solving skills.

WORK EXPERIENCE

General Kinematics Corp.

Dec. 2023 – Present

Electrical Engineering Intern – Controls Dept.

Crystal Lake, IL

- Designed 3+ high/low-voltage electrical control panels to automate and safeguard industrial machinery.
 - Use of Allen Bradley PLCs and HMIs (Logix Designer)
 - Use of ABB Variable Frequency Drives
- Designed MQTT data-pipeline via Python client and SQL server.
 - System capable of monitoring machinery to generate +\$100k of annual service revenue.
- Re-engineered casting moisture addition system via PLC enabled PID control.
 - Cost-cutting previous design by +\$10,000 in reduced material and maintenance.

Southern Illinois University Nanoelectronics Lab

Feb. 2024 – Present

Undergraduate Research Assistant – College of Engineering

- Modelling advanced field-effect transistors.
 - Numerical analysis using Synopsys Sentarus.

SAGE Learning Center – McHenry County College

Jun. 2022 – Present

Professional Math Tutor

Crystal Lake, IL

- Tutored over 50+ students; over 25+ achieving A's on exams; all achieving their goals.
- Available for any possible question regarding mathematics.
 - Easily communicated complex ideas.
 - Met needs for flexibility across subjects.

EDUCATION

Southern Illinois University Carbondale

August 2023 – May 2025

BS, Electrical Engineering (ABET), Minor in Mathematics

Carbondale, IL

- Provost's Scholarship – Full Tuition

McHenry County College

May 2023

AES, Electrical Engineering

Crystal Lake, IL

- President's List, Phi Theta Kappa Honors Society; 4.0 GPA
- Academic Department Award - Engineering
- Environmental Action Club

CERTIFICATIONS, SKILLS, LEADERSHIP EXPERIENCE & INTERESTS

- **Leadership Experience:** Senior Patrol Leader (Boy Scouts of America)
- **Certifications:** Life Scout (Boy Scouts of America), National Youth Leadership Training
- **Skills:** PSpice; Autodesk Eagle; C++; Python; IoT; Verilog; CAD; soldering; mathematics; problem solving; communication
- **Interests:** Music, family, community, mathematics, electronics, sports, history