

# HOANG NGUYEN

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## EDUCATION

### Kennesaw State University - Honor Student

Bachelor of Science in Computer Engineering - Minor in Mathematics (4.0 GPA)

Marietta, GA

Expected graduation: 2028

## OBJECTIVE

Seeking an opportunity to leverage my passion for hardware programming, electrical and computer engineering. Hard-working student in Computer Engineering with a minor in Mathematics. Currently working as a co-op for the low voltage team at Jordan and Skala Engineers company. Eager to apply my strong foundation in physics, electrical and computer skills together and to gain practical experience in a dynamic and growth-oriented workplace.

## PROJECTS

- Pi Zero with Sense HAT Projects: Developed a Pi Clock and Pi Thermometer using Python with Sense HAT to display real-time temperature, humidity, and pressure data. Gained insights into CPU memory processing and how data is retrieved from memory to update the display in real-time.
- Developed custom traffic light control logic using digital logic and timer-based conditions for pedestrian crossings and train detection, implemented with the Hneemann Digital Logic Simulator for schematic design, simulation, and testing.
- TI Basic and eZ80 Assembly programs:
  - Developed custom programs for the TI-84+ CE calculator using TI Basic and eZ80 Assembly.
  - Gained hands-on experience in low-level programming, optimizing memory usage, and coding for embedded systems
  - Developed graphing and equation-solving applications that run efficiently on limited-resource hardware.
- Networking and Server Projects:
  - Set up a Pi-hole ad blocker, PiFi router, and a private eBook server using Docker on a Mac Mini.
  - Enhanced network security and privacy by blocking ads with Pi-hole and configuring a custom PiFi router.
  - Gained practical experience in networking, server management, and Docker containerization.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, TI Basic, x86 Assembly, Verilog, VHDL, R, latex.

**Software:** AutoCAD, Revit, LTSPICE, MATLAB, MS Office, Linux, Git, VS Code, Visual Studio, Adobe Creative Suit.

**Hardware:** Digital Multimeter, Oscilloscope, Function Generator.

**Miscellaneous:** Digital Logic, Circuit Analysis, Soldering, Wiring.

**Soft-skills:** Problem-solving, Critical Thinking, Adaptability, Time management, Teamwork.

## EXPERIENCE

### Low Voltage Designer Co-op

08/2025 - Present

Jordan & Skala Engineers

Norcross, GA

- Collaborating with the Low Voltage team to learn electrical design concepts, data telecommunication, legal codes, and enhance AutoCAD and Revit skills.
- Working closely with a mentor, gaining hands-on experience through observation, instruction, and site visits for different types of buildings as hotels, restaurants, multi-family, and apartments.
- Reviewing shop drawing submittals, and performing calculations.

### SI leader - Student Assistant

05/2025 - Present

Kennesaw State University

Kennesaw, GA

- Facilitating peer-led study sessions for Calculus and Physics, enhancing student comprehension and performance.
- Mentoring students to promote independent learning and critical thinking skills, fostering a supportive
- Collaborating with faculty to align study sessions with course objectives, ensuring relevance and effectiveness.