HOANG NGUYEN

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github.com/hncpe| US Citizen | English and Vietnamese
Website: hoangcpe.org

EDUCATION

Kennesaw State University - Honor Student <div align="right">Marietta, GA</div>
Bachelor of Science in Computer Engineering - Minor in Mathematics (4.0 GPA) <div align="right">*Expected graduation: 2027*</div>

OBJECTIVE

Seeking an internship to leverage my passion for hardware programming, electrical engineering, and cybersecurity. Hard-working student in Computer Engineering with a minor in Mathematics. Eager to apply my strong foundation in Mathematics and Physics, 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.

- Created custom solvers for math and physics problems and designed a sorting algorithm using C++. Applied mathematical modeling and algorithm design techniques to enhance problem-solving capabilities for academic tasks.
- 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.
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

Meat Mixer and Machinery <div align="right">02/2021 - 06/2022</div>
Wayne Farms LLC <div align="right">*Pendergrass, GA*</div>
- Collaborated within a high-paced production environment, ensuring consistent quality and output
- Ensured cleanliness and operational readiness by thoroughly cleaning equipment after each shift and setting up for the following day

EXTRACURRICULAR

IEEE Eta Kappa Nu (HKN), the ECE Honor Society
KSU Computer Engineering Apprentice Club
Information Systems Security Association (ISSA) at KSU