Nguyen Thi Diem Quynh

Control Engineering and Automation Student

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OBJECTIVE

Detail-oriented Control Engineering student with a strong background in logic design and system automation. Passionate about leveraging LLMs and prompt engineering to build efficient, automated workflows and software prototypes. Seeking a remote AI Prompt Engineer role to apply programming skills (Python, C++) and analytical thinking to solve complex business problems through AI-driven solutions.

EDUCATION

International University – VNU HCM *2024 - Present*

Bachelor of Engineering in Control Engineering and Automation

SKILLS

AI Prompting	• Effective Prompting, Prompt Chaining & Logic, AI-driven Workflow Automation, Proficiency with GPT & Claude.
Programming & Software	• Python , JavaScript , C/C++, MATLAB, SQL.
Languages	• Vietnamese (Native), English (Intermediate -Fully immersive English-taught academic background).
Tools & Frameworks	• LangChain, OpenAI/Claude API, GitHub, Gemini.
Soft Skills	• Analytical thinking, logical reasoning, practical problem-solving, ability to learn new technologies independently, strong time management, adaptable to high pressure, teamwork skills.

TECHNICAL PROJECTS

Software Architecture & Project Organization Study *April 2026 - Present*

Independent Researcher & Software Architect

- Researched and Implemented various Python project structures to ensure code scalability and maintainability.
- Proficient in applying patterns: Single-Script for quick automation, Flat Modular for logic separation, Layered Project for clean separation of concerns (UI, logic, data), and Package-based for reusable modules.
- Demonstrated the ability to design Plugin-based architectures to support modular and swappable software components.

Secure Password Manager (Modular C Project) *Midterm Coding Project - 2026*

C Developer (System & Logic)

- Developed a secure command-line utility in C using a modular architecture with custom headers for authentication, file I/O, and search algorithms.
- Implemented a multi-layer security system featuring master password encryption, a smart hint retrieval system, and a self-destruct mechanism to wipe sensitive data after excessive failed login attempts.
- Engineered robust file handling logic and efficient search algorithms to manage user credentials with high performance and data integrity.

Biomedical & 3D Imaging Research Lab *April 2026 - Present*

Student Researcher (Trainee)

- 3D Geometry & Shape Modeling Training: Currently completing an intensive curriculum on Shape Modeling and Prediction. Mastering 2D/3D geometry representation and transformation using Python, VTK, and Open3D.

- Processing Workflows: Actively learning multimodal medical imaging modalities and segmentation techniques. Gaining hands-on experience in 3D Point Cloud and Mesh Reconstruction through tools like MeshLab and 3DSlicer.
- Project Organization & Coding Standards: Applying professional project structures (Flat Modular, Layered, and Package-based) to ensure code scalability. Practicing clean separation of concerns between UI, business logic, and data handling.
- Future Development: Expanding 3D visualization and animation skills with an upcoming focus on Blender and advanced shape characterization.

CERTIFICATIONS

Finished coures from Couresa : Google IT Automation with Python, Google AI Essentials, Google Advanced Data Analytics, Generative AI with LLMs (DeepLearning.AI). *2026*

INTERESTS

Aspiring to master professional AI development by advancing from prompt engineering to model training and fine-tuning, while exploring AI applications in 3D visualization and building scalable, modular project architectures.