NGUYỄN HỮU TRỌNG

C / C++ SOFTWARE ENGINEER

CONTACT

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OBJECTIVE

- Fresher C++ Software Engineer with over one year of experience in desktop application development. Seeking to grow in large-scale software systems with a strong focus on code quality, maintainability, and structured development processes.

WORK EXPERIENCE

Fresher C/C++ Developer | May 2025 - Present

 Project: ECAD3D

Project Description

ECAD3D is a Windows-based desktop application for 3D electrical control cabinet design, handling design data processing, validation, and synchronization across system components.

Role & Team Size

- **Role**: C++ / C# Software Engineer
- **Team Size**: 3 members (BA, Developer)

Responsibilities

- Developed and maintained **core C++ logic** for multiple modules within the ECAD3D desktop application.
- Implemented and enhanced **reference design list functionality**, including data loading, validation, merging, and update logic.
- Developed **CSV and DCX file import processing**, handling format validation, error detection, and edge cases.
- Implemented **data consistency and synchronization logic** across backend processing, database updates, and UI display.
- Developed and maintained **C# UI-related logic** to reflect backend data changes correctly.
- Analyzed functional **specifications**, designed **test cases**, and implemented features accordingly.
- Participated in **project discussions** to clarify requirements and align implementation with customer expectations.
- Supported the **on-time release of ECAD3D version 1.0** by improving feature quality and test case organization.

Technologies

- Languages: C++, C#
- Application Type: Desktop Application (Windows)
- Libraries / Frameworks: STL, Boost, internal core libraries (basilica)
- Database: SQLite
- UI Integration: Backend–UI data synchronization

Project: VinaCAD

Project Description

A desktop CAD-related application feature for managing reference design lists, which handles design component data imported from CSV/DCX files and synchronizes them with placed parts in the system.

Role & Team Size

- **Role**: C++ / Software Engineer
- **Team Size**: 8 members (Developer, Tester)

Responsibilities

- Developed and enhanced **CAD commands** using C/C++ within a command-based application framework.
- Implemented **drawing annotation features**, focusing on **Dimension (DIM)** and **Revision Cloud (RevCloud)** commands.
- Handled **command execution flow**, including user input processing and drawing data manipulation.
- Designed and implemented **reusable internal APIs / helper modules** to support multiple CAD commands.
- Performed **debugging and bug fixing** on existing command logic to improve correctness and stability.

Technologies

- Languages: C, C++
- Application Type: Desktop CAD Application
- Libraries / Frameworks: ODA (Open Design Alliance), internal CAD application framework
- Core Techniques: Command-based architecture, user interaction handling
- Data Handling: Drawing and geometric data processing

PROFESSIONAL INFORMATION

- **Education:** Da Nang University of Technology (DUT)
- **Major:** Information Technology – Information Security
- **Programming Focus:** C/C++ (primary), C# (UI development)
- **Career Level:** Fresher Software Engineer with 1+ year of practical experience
- **Technical Orientation:** Desktop application and system-level software development

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PROJECTS

Ecommerce

Developer

- Built an e-commerce website using ASP.NET MVC with product, cart, and order management features.
- Integrated VNPay for online payment processing.
- Implemented backend logic for checkout flow and payment status handling.
- Applied MVC architecture to organize code and improve maintainability.

Shoe sales software

Developer

- Shoe sales software with basic functions including adding products to cart, invoicing, payment, and employee management , create database, frontend and CRUD function, using C# , SQL server

CERTIFICATIONS

TOEIC 650

INTERESTS

Play soccer , badminton