

# HÀ ĐỖ

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## SKILLS

**Programming languages** | C, C++, embedded C, Python, R, JavaScript, Nodejs, Html, CSS, VHDL.

**Databases** | MongoDB.

**Tools and Platforms** | Microsoft Office, Jira, Jenkins, Confluence, ROS2, Linux.

**Other skills** | Communication Skills, Customer Services, CI/CD, Scrum, Test Automation Frameworks, Agile Methodologies.

## WORK EXPERIENCES

**Aion Power, Finland** | Nov 2023 – Feb 2024

*Software trainee*

- Assisted in LabVIEW software development, testing, and documentation.
- Contributed to the development of the company's software development environment and practices.
- Supported the implementation of the company's ISO9001 quality management system, ensuring compliance with standards and procedures.

**Konecranes, Finland**

*Innovation Project Course* | Sept 2023 – December 2023

- Explored advanced industrial automation concepts using ESP32 microcontrollers, focusing on UART, WebSocket communication, and Wi-Fi data transmission.
- Collaborated with industry professionals from Konecranes to enhance real-world problem-solving skills and integrate IoT solutions.
- Designed and executed a comprehensive project demonstrating timer control and seamless data exchange, highlighting practical application of learned concepts.

*Software designer – summer trainee* May 2023 – August 2023

- Software development of embedded crane control system board.
- Software testing of the control board in system and integration testing levels.
- Software documentation.
- Developing software for a safety-critical control system using embedded C within an agile international team.
- Enthusiastic entry-level embedded systems engineer with a foundation in memory management and testing methodologies for microcontroller units (MCUs) like STM32 F2 and F4. Demonstrated understanding in detecting memory leaks and supporting MCU platform upgradability. Proficient in manual and automated testing techniques, with a keen focus on crane simulator and real crane applications.

## PROJECTS

Statistical data analysis final project ([Github](#))

VHDL assignments ([Github](#))

BMI calculator in python ([Github](#))

Driving Diary in C++ ([Github](#))

Smart IoT pet Fedder in Nodejs, MongoDB ([Github](#))

ABB Ventilation in Nodejs, MongoDB ([Github](#))

UART and WebSocket Connectivity using ESP32 in Embedded C and JavaScript ([Github](#))

## EDUCATION

**University of Turku** | Aug 2024 - present

*Master of Robotics and autonomous systems*

*Relevant coursework: System Modelling and Synthesis with HDL, Algorithmic Foundations of Robotic and AI Systems, Statistical Data Analysis, Probabilistic Programming, Perception and Navigation in Mobile Robotics, Programming for Health Wearables*

**Metropolia University of Applied Sciences, Finland** | Aug 2021 - June 2024

*Bachelor of Engineering in Smart IoT Systems*

*Thesis topic: "Simulating Robotic Precision: LabVIEW-Based Virtual Prototyping of a Smart Arm", grade: 4/5.*

**Oulu University of Applied Sciences, Finland** | Aug 2019 - April 2021

*Bachelor of Engineering in web development*

- Studies transferred to Metropolia University of Applied Science.

**University of Agriculture and Forestry, Vietnam** | August 2012 – Nov 2016

*Bachelor of Engineering in Geographic Information Systems*

## CERTIFICATIONS

Aion ([Link](#)) | Konecranes ([Link](#)) | Swappie ([Link](#)) | Programming MOOC 2023 - Advanced Course ([Link](#)) | AWS Academy Graduate ([Link](#)) | Programming MOOC 2023 - Introduction to Programming ([Link](#))

## LANGUAGES

Vietnamese (Native), English (Excellent)

## ABOUT

Self-motivated, Responsible, Teamwork, Problem solving