

Quang Nhat Nguyen Le

MSc

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Education

RWTH Aachen

M.Sc IN ROBOTICS SYSTEM ENGINEERING

Aachen, Germany

Oct. 2021 - Present

Rhine-Waal University of Applied Sciences

M.Sc IN BIONICS. FOCUS: ROBOTICS AND ARTIFICIAL INTELLIGENCE

Kleve, Germany

Mar. 2018 - Mar. 2021

- GPA: 1.7/1 (German grading system)
- Master's Thesis: Design and Development of IAOR - an Intelligent Autonomous Omni-directional Robot
- Association of German Engineers (VDI)'s award for excellent Master's Thesis

Ho Chi Minh City University of Technology and Education

B.Sc IN MECHANICAL ENGINEERING

Ho Chi Minh City, Vietnam

Sep. 2012 - Aug. 2016

- GPA: 8.1/10

Experience

Robotics Lab, Rhine-Waal University of Applied Science

RESEARCH ASSISTANT

Kleve, Germany

Sep. 2019 - Present

- Autonomous Self-driving vehicles on low-power embedded systems
- Real-time solution for Artificial Intelligence applications on edge devices
- Tutoring the course "Introduction to Machine Learning"
- Tutoring the course "Advanced Computer Aided-Design"

Robert Bosch Engineering and Business Solutions Vietnam Company Limited

TECHNICAL ANALYST FOR FOREIGN TRADE

Ho Chi Minh City, Vietnam

Oct. 2017 - Feb. 2018

- Building up Master data for Foreign Trade share service included Harmonize system code, preferential determination, and export control for all products of Bosch worldwide.
- Analysis Bill of Material of product for preferential calculation.

Samsung Electronic Ho Chi Minh CE Complex

DIGITAL APPLIANCES ENGINEER- SENIOR STAFF

Ho Chi Minh City, Vietnam

June. 2016 - Aug. 2017

- Design and develop new models of Samsung refrigerators.
- Initiates and provides technical direction to enhance production methods, improve parts and reduce production costs.
- Develops methods, programs and plans to predict, track, and report production costs during design development.

Skills

Programming	Python, C++, MATLAB, Java, HTML/CSS/Js
System	Git, Docker, Linux
Robotics	ROS, Embedded systems, Microcontroller
ML Frameworks	Tensorflow, Keras, Pytorch, Pandas, Scikit-learn
CAD	Siemens NX, Solidworks, Inventor, AutoCad
Languages	English (C1), German (A2), Vietnamese (Mother tongue)
Office tools	Latex, Excel, Microsoft Word, PowerPoint

Projects

Rhine-Waal University of Applied Sciences

Kleve, Germany

AUTHOR/CAPTAIN

Mar. 2019 - May. 2021

- Master's Thesis: Design and Development of IAOCR - an Intelligent Autonomous Omni-directional Climbing Robot
- Side Project: Captain of self-driving vehicles team. Our goal is to develop small-scale automated vehicles which would compete in JRC AUTOTRAC 2020 - an autonomous vehicle traffic competition hosted by European Science Hub.

Ho Chi Minh City University of Technology and Education

Ho Chi Minh City, Vietnam

CAPTAIN

Apr. 2015 - Jul. 2016

- Capstone Project: Design, Calculating and Manufacturing 5 Axis CNC Milling Machine.
- Research Project: Development of an Ion-exchange Polymer Metal Composites bending actuator for robotic and medical-related applications.

Honors & Awards

2021	Association of German Engineers's award for excellent Master's Thesis,	<i>Düsseldorf, Germany</i>
2021	Vingroup Science and Technology Scholarship Program for Overseas Study for Master's and Doctoral Degrees,	<i>Hanoi, Vietnam</i>
2021	3rd place at JRC AUTOTRAC 2020: a small-scale automated vehicles competition hosted by EU Science Hub,	<i>Ispira, Italy</i>
2016	Odon Vallet scholarship for excellent students in Vietnam,	<i>Ho Chi Minh City, Vietnam</i>
2015	Excellent oral presentation at ICMAS 2015 conference, April 13th-14th, Paris, France,	<i>Paris, France</i>
2014	Sunflower Mission Engineering and Technology Scholarship 2014,	<i>Ho Chi Minh City, Vietnam</i>

Publication

2015	Quang Nhat Nguyen Le , and Nguyen Truong Thinh: "Development of the bending actuator with Nafion-Pt IPMC tube". Advanced Materials Research. Vol. 1119. Trans Tech Publications, 2015.	<i>Paris, France</i>
2020	Quang Nhat Nguyen Le , Abir Bhattacharyya, Mamen Chembakasseril and Ronny Hartanto: "Real-time Sign Detection and Recognition for Self-driving Mini Rovers based on Template Matching and Hierarchical Decision Structure". Proceedings of the 12th International Conference on Agents and Artificial Intelligence. Vol. 1. SciTePress, 2020.	<i>Valletta, Malta</i>