

Quang Nhat Nguyen Le

MECHANICAL ENGINEER

KLEVE 47533, Germany

☎ (+49)1627022542 | ✉ quangnhatnguyenle@gmail.com | 🏠 quangnhat185.github.io



Education

Rhine-Waal University of Applied Sciences

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

- GPA: 1.7 (Dec 2020)

Kleve, Germany

Mar. 2018 - Present

Ho Chi Minh City University of Technology and Education

B.Sc IN MECHANICAL ENGINEERING

- GPA: 8.1/10

Ho Chi Minh City, Vietnam

Sep. 2012 - Aug. 2016

Experience

Robotics Lab, Rhine-Waal University of Applied Science

RESEARCH ASSISTANT

- Autonomous Self-driving vehicles on low-power embedded systems
- Real-time solution for Artificial Intelligence applications on edge devices
- Tutor of the course "Introduction to Machine Learning"

Kleve, Germany

Sep. 2019 - Present

Robert Bosch Engineering and Business Solutions Vietnam Company Limited

TECHNICAL ANALYST FOR FOREIGN TRADE

- 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.

Ho Chi Minh City, Vietnam

Oct. 2017 - Feb. 2018

Samsung Electronic Ho Chi Minh CE Complex

DIGITAL APPLIANCES ENGINEER- SENIOR STAFF

- 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.

Ho Chi Minh City, Vietnam

June. 2016 - Aug. 2017

Skills

Programming	Python, C++, Java, MATLAB, 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	Microsoft Word, Power Point, Excel, Latex
Others	Presentation, Problem-solving, Front-end (HTML/CSS/Js)

Projects

Rhine-Waal University of Applied Sciences

Kleve, Germany

AUTHOR/CAPTAIN

Mar. 2019 - Present

- 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 AUTO-TRAC 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

2016 **Odon Vallet scholarship for excellent students in Vietnam,**

*Ho Chi Minh City,
Vietnam*

2015 **Excellent oral presentation at ICMAS 2015 conference, April 13th-14th, Paris, France,**

Paris, France

2014 **Sunflower Mission Engineering and Technology Scholarship 2014.,**

*Ho Chi Minh City,
Vietnam*

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.

Paris, France

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.

Valletta, Malta