

# DINH VINH THANH NGUYEN

Paris, France ◊ [thanhndv212@gmail.com](mailto:thanhndv212@gmail.com) ◊ [linkedin](#) ◊ [github](#)

## PROFESSIONAL SUMMARY

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PhD in Robotics seeking a robotics engineer position. Have robotics expertise in modeling and simulation, system identification, reinforcement learning, and humanoid robotics.

## EXPERIENCE

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### Robotics Research Engineer

Maye Entreprise

Feb 2025 - Present

*Paris, France*

- Developed reinforcement learning policies for humanoid locomotion.
- Developed light-weight Python simulator for humanoids.

### Research Engineer

Toward S.A.S

Sept 2021 - Oct 2024

*Toulouse, France*

- Designed a standard model identification framework; constructed and tested on simulation environment; carried out experimental validation for the TALOS humanoid robot and the TIAGo mobile manipulator.
- Developed and maintained a python open-source toolbox of dynamic identification and geometric calibration for robots and humans.

### Mechanical Design Intern

Orthopus

Jun 2020 - Aug 2020

*Nantes, France*

- Designed and fabricated an 3D-printed test bench for prosthetic wrist.

## EDUCATION

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### Doctor of Philosophy in Robotics

L'Institut National des Sciences Appliquées (INSA Toulouse) and LAAS-CNRS

Nov 2021 - Dec 2024

*Toulouse, France*

- Thesis: Geometric calibration and dynamic identification methods for anthropomorphic robots

### Master of Science in Control and Robotics

École Centrale de Nantes

Sep 2019 - Sep 2021

*Nantes, France*

### Bachelor of Science in Mechanical Engineering

Korea Advanced Institute of Science and Technology (KAIST)

Mar 2015 - Sep 2019

*Daejeon, Rep. of Korea*

- Minor: Electrical Engineering

## SKILLS

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### Technical Skills

System Identification, Modeling and Simulation, Robot Control, Motion Planning, Reinforcement Learning, Mechanical Design

### Software

Python, C++, ROS, Git, Docker

### Soft Skills

Communication, Teamwork, Scientific Writing

### Languages

Vietnamese (Native), English (Proficient), French (Intermediate), Korean (Advanced)

## SELECTED PUBLICATIONS

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- Thanh D. V. Nguyen et al., "FIGAROH: A Python Toolbox for Dynamic Identification and Geometric Calibration of Robots and Humans," 2023 IEEE-RAS 22nd International Conference on Humanoid Robots (Humanoids), Austin, TX, USA, 2023, pp. 1-8.
- Thanh D. V. Nguyen et al., "Improving Operational Accuracy of a Mobile Manipulator by Modeling Geometric and Non-Geometric Parameters" 2024 IEEE-RAS 23rd International Conference on Humanoid Robots (Humanoids), Nancy, France, 2024, pp. 965-972.