

Duy Le

Location: Mulgrave, Melbourne, Australia

E-portfolio: duytrangiale.github.io

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PhD student in computational modelling with a strong academic background and practical experience in engineering principles, programming, and design thinking. Proven problem-solving skills and collaborative mindset developed through internships and volunteer engagements. Seeking to leverage expertise in AI technology and domain knowledge in Physics Simulation to contribute effectively to cutting-edge projects.

EDUCATION

❖ **Federation University, Australia**

Sep 2021 – Present

Doctor of Philosophy

❖ **Australian National University (ANU), Australia**

July 2019 – July 2021

Master of Engineering (Mechatronics)

Academic achievements:

- **GPA:** 6.2/7.0
- **2021:** Presentation in the Canberra Innovation Network showcase as the best performance team in Capstone Project. Topic: "Automating the Archaeological Toolkit: Mechatronics Microdrill sampling of inclusions within pottery sherds".

❖ **Ho Chi Minh city University of Technology (HCMUT), Vietnam**

Sep 2013 – Oct 2018

Bachelor of Engineering (Honours degree – PFIEV) in Mechatronics

Academic achievements:

- **GPA:** 3.5/4.0
- **2018:** Top 3 highest GPA in the Bachelor program in Mechatronics (PFIEV) of HCMUT
- **2018:** Ranked 5th in the Bachelor graduation thesis

PUBLICATIONS

- Duy Le and Linh Nguyen, "An Efficient Force-Feedback Hand Exoskeleton for Haptic Applications", *International Journal of Intelligent Robotics and Applications*, 2021
- Duy Le, Ying Men, Yunkang Luo, Yixuan Zhou and Linh Nguyen, "An Efficient Multi-Vehicle Routing Strategy for Goods Delivery Services", *IEEE International Conference on Advanced Robotics and its Social Impacts*, 2021
- Duy Le and Linh Nguyen, "A Design of Haptic Hand Exoskeleton for Virtual Reality Applications", *2021 Innovations in Intelligent Systems and Applications Conference (ASYU), IEEE, 2021*
- Duy Le and Linh Nguyen, "Simple linear iterative clustering based low-cost pseudo-LiDAR for 3D object detection in autonomous driving", *Multimedia Tools and Applications*, 2023

WORK EXPERIENCE

❖ **The Commonwealth Scientific and Industrial Research Organisation (CSIRO) – PhD scholar** **SEPTEMBER 2021 – PRESENT**

Applying artificial neural network to improve the performance of traditional physics-based modelling methods

❖ **TICTAG JSC – Embedded firmware engineer**

JANUARY 2019 – APRIL 2019

3-month internship with an information technology firm providing innovative solutions for startups and SMEs, consulting the clients with a full stack of services from software to hardware solutions.

Key Achievements:

Successfully developed the electrical management system for office building, maximised the saving strategies for customers, helped clients manage electrical usage effectively up to 30%, clearly provided detail instruction for the installation and maintenance of the system and for further development.

❖ **NHATTINH COMPANY – Mechanical design engineer**

JUNE 2016 – SEPTEMBER 2016

Summer internship with a Mechanical and Industrial Design firm providing engineering design, manufacture and installation of industrial machinery and equipment.

Key Achievements:

Successfully developed conceptual design for the fabric cutting machine, proved that the design can satisfy customer's requirement and achieve required performance, clearly provided detail report for manufacturing and installation.

KEY COMPETENCIES

Skills:

- **Programming language:** C, Java, Python, MATLAB
- **AutoCAD, SolidWorks:** 3D Conceptual design and technical drawing
- **MATLAB Simulink, Simmechanics, ANSYS:** Simulation and structural analysis

Languages:

English (advanced), Vietnamese (native), French (intermediate).

ADDITIONAL INFORMATION

- Flexible hours and location: Remote work available from Australia.
- Excellent English verbal and written communication skills.
- Attention to detail and ability to spot errors or inconsistencies in writing.
- Verification of educational & professional information via partner, Checkr.

References available upon request.