

Dac Dang Khoa Nguyen

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Undergraduate Mechatronics Student who is enthusiastic and has a strong foundation, skills in **mechanical**, **mechatronics** and **programming**, and currently seeking an internship opportunity to gain more practical skills in all mentioned fields and contribute more to the community.

Experience

Software Developer – Summer Internship

November 2019 – February 2020

The Robot People

- Role: Developing and maintaining a software program that collects data from a Universal Robot to support the operator with monitoring the behavior of the robot.
- Result: A stable program that was deployed for testing at a factory and are being maintained proactively by myself and an engineer at the company.
- Role: Cooperating with another engineer to develop a program that helps automate the palletizing job that he was in charge of.
- Result: A stable program that met the basic requirements of the engineer.
- Key Achievement: **Software Development, database management, UI programming**

Casual Academic Tutor – Mechatronics 1

March 2019 – Now

University of Technology Sydney

- Assist and help other students with in-class and assignment materials
- Key Achievement: Further enhancing **explanation** and **problem solving** skills, consolidating knowledge regarding Mechatronics.

Education

Bachelor of Engineering (Honours), Mechatronics

July 2018 – June 2020

University of Technology Sydney (UTS)

- GPA: 6.0/7.0 (Distinction average – 80.22%)
- Develop and maintain the Dobot Magician Driver ROS package:
https://github.com/gapaul/dobot_magician_driver

Technical Skills

Programming Language

C++, Python, MATLAB, C, Embedded C, Java, Git

Database management

MySql, mysql python

UI Programming

Java Swing, Python Tkinter

Robotics

Robot Operating System (ROS), **Computer Vision**, Machine Learning, Sensors, **Universal Robot URCAPs**

CAD Design

AutoCAD, SolidWorks

Robot hardware

Universal Robots, **Dobot Magician**

Other Skills

Productivity and Efficiency

Adapted and built the ability to work under **high pressure** and **limited time**, **utilise** the given resources to produce **high-quality** results.

Project Management

Developed the ability to **organise**, **plan** each requirement and task to complete a big project in an optimised method

Team Working

Improved the ability to listen, understand, giving feedback, encourage, and cooperate well with other members

Languages

Fluent **Vietnamese**, Intermediate **Japanese (JLPT N3)**

Extra-curricular Activities

- UTS Robotics Society: Member

August 2018

Professional Development

- Engineering Australia – Student Member

January 2019

Referees

Dr. Gavin Paul

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