

# Dinh Tung Le (Tony)

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## Experience

### **Research & Development Specialist**

August 2019 - Present

Presien, Australia

- Developing and deploying software solutions for machine-learning based products, integrating software and hardware following the Agile Development frameworks
- Undertaking root cause failure analysis, and implement fixes for the above-mentioned products
- Constructing and carrying out Quality Assurance and Quality Control (QA & QC)

### **Technical Developer**

March 2019 - November 2019

Dobot Magician ROS Package, at UTS

- Developed an open-source ROS package for the Dobot Magician - a desktop robotic arm, along with other academic members of the university
- Debugged the software and provided feedback on the development of the package
- Contributed in the wiki and wrote tutorials on GitHub on how to use the package

### **Casual Academic (Tutor)**

March 2019 - Present

For the subject Mechatronics 1, at UTS

- Assisted lecturers/other tutors in helping students achieve key knowledge in class and lab sessions, following UTS's *learning.futures* model of learning
- Contributed in facilitating the subject's studio program for high-performing students

### **Engineering Contractor**

Nov 2018 (3 weeks)

Big Kahuna Imagineering

- Designed software to quality control stepper motors and drivers to prevent unforeseen issues
- Designed circuit boards with peripherals, that connected devices and sensors in the system
- Installed part of an exhibition display, which included soldering, cabling, doing measurements and working with hand-tools

## Education

### **Bachelor of Engineering, Mechatronics**

University of Technology Sydney (UTS)

July 2018 – July 2020 (expected)

- Distinction average (83.5%)
- Included on the Dean's List 2019

Ho Chi Minh City University of Technology (HCMUT)

August 2016 – Jun 2018

- Distinction average (82.4%)
- Good Merit Scholarship – *Office of International Study Programs (OISP)*, 2016 to 2018

## Technical Skills

Programming Languages	<b>C++</b> , <b>Python</b> , Shell script, <b>C#</b> , <b>Embedded C</b> , Pascal, HTML/CSS
Software/Middleware	<b>MATLAB</b> , <b>Robot Operating System (ROS)</b> , <b>Unity 3D</b> , <b>SolidWorks</b> , <b>AutoCAD</b> , Git, <b>Adobe Creative Cloud</b> (Photoshop, Illustrator, Premiere, After Effects)
Hardware	<b>Microcontrollers</b> , single-board computers ( <b>Raspberry Pi</b> , Jetson Nano), robotic manipulators, RGB/RGBD cameras, 3D-printing

## Core Skills

Leadership	Endorsed by peers and academics in past projects and groups
Productivity	Adapting and producing great results working under pressure and deadlines, generally a fast learner
Cultural and Social	Developed a good work ethic, intercultural understanding and communicational skills by working in different industries and with many types of clients and peers
Languages	Fluent <b>English</b> and <b>Vietnamese</b> , conversational <b>German</b>

## Recent Projects

<i>Dobot Magician ROS Package</i>	<i>C++, ROS, MATLAB, Robotic Manipulator</i> <i><a href="https://github.com/gapaul/dobot_magician_driver">https://github.com/gapaul/dobot_magician_driver</a></i>
<i>Robot Arm with Mobile Base</i>	Arduino, C++, ROS, MATLAB, Monte Carlo Localisation, Closed-loop Controller, Path Finding <i><a href="http://mechatony.com/robot-arm-with-mobile-base">http://mechatony.com/robot-arm-with-mobile-base</a></i>
<i>Self-Balancing Robot</i>	Embedded C, PID Controller application and Tuning <i><a href="http://mechatony.com/self-balancing-robot">http://mechatony.com/self-balancing-robot</a></i>

## Extra-Curricular Activities

<i>Member</i> UTS Robotics Society (RoboSoc)	July 2018 – Present
<i>Volunteer Tutor</i> Buddy Program – Ho Chi Minh City University of Technology	Oct 2017 – Jan 2018
<i>Instructor/Coordinator</i> “Fun Electronics” workshops – Le Hong Phong High School Science Club	Jun 2015 – Jan 2017
<i>Club President</i> Le Hong Phong High School Science Club	Jun 2014 – Jun 2015

## Referees

Available upon request