

DEREN TEO

1007/45 Boundary St, South Brisbane QLD 4101

(+61) 490 517 568 ◊ [linkedin.com/in/derenteo](https://www.linkedin.com/in/derenteo) ◊ teo.deren@icloud.com

EDUCATION

University of Queensland

Feb 2019 - Dec 2023

Bachelor of Engineering (Honours), Mechatronic Engineering; and
Bachelor of Computer Science, Machine Learning

GPA : 6.9 / 7

SKILLS

Programming Languages

Python, Java, C, C++, MATLAB

Technical Skills

Linux, ROS, CAD software, Altium Designer

EXPERIENCE

Burl Aerospace

Dec 2023 - Present

Drone Engineer

- Ground up mechanical design of a novel, small-scale UAV, rapidly prototyped via 3D printing
- PCB design, simultaneously for electrical transmission and as a major structural feature
- Custom embedded software development on top of open source PX4 flight control software

IEEE UQ Student Branch

Jul 2021 - Nov 2023

Vice-Chair → Chair

- Liaised with academics and industry professionals to organise on-campus events for students
- Built collaborative relationships with other UQ societies to promote IEEE to a diverse audience
- Participated in Qld. Section committee meetings to align goals with the broader IEEE body

Synengco

Nov 2019 - Nov 2023

Student Software Engineer

- Built and tested Bayesian methods for supply chain modelling and optimisation
- Visualised big data from monitoring of industrial assets
- Developed software aligned with the Open Industrial Interoperability Ecosystem (OIIE)
- Collaborated with major power generation clients to optimise their code base

Universal Field Robots

Nov 2022 - Feb 2023

Robotics Engineer Intern

- Programmed ROS2 software for communication with hardware using CAN specification
- Tested systems under development in simulation and on real hardware
- Integrated sensors (quadrature, IMU, LiDAR, radar and GPS) using EKF for sensor fusion
- Liaised with clients in mining automation to identify project direction and requirements

HONORS & AWARDS

2019 - 2023

- Dean's Commendation for Academic Excellence — All semesters (10 awards in total)

2023

- Les Dobson Memorial Prize for Best Systems & Software Engineering Project (Honours thesis)
- IEEE Queensland Section Student Thesis Prize — General Category
- Best Project in Avionics & UAV (Honours thesis)

2022

- Mechatronic System Design Project II (METR4810) trophy

2021

- Shortlisted for L3 Harris Scholarship in Electrical Engineering
- Shortlisted for Rio Tinto Excellence Scholarships and Graduate Program

2020

- Hawken Scholar 2020 (top 5% of undergraduate Engineering cohort)
- Prentice Scholar 2020 (top 5% of undergraduate Computer Science cohort)
- Shortlisted for Anglo American Metallurgical Coal Engineering Scholarship

2019

- Recipient of the Information Communications Technology (ICT) Excellence Scholarship