DEREN TEO

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EDUCATION

University of Queensland   *Feb 2019 - Dec 2023*

Bachelor of Engineering (Honours), Mechatronic Engineering; and   GPA : 6.9 / 7

Bachelor of Computer Science, Machine Learning

SKILLS

Programming Languages	Python, Java, C, C++, MATLAB
Technical Skills	Linux, ROS, CAD software, Altium Designer

EXPERIENCE

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

2023

· IEEE Queensland Section Student Thesis Prize — General Category

· Les Dobson Memorial Prize for Best Systems & Software Engineering Project (Honours thesis)

· Best Project in Avionics & UAV (Honours thesis)

· Semester 1 Dean's Commendation for Academic Excellence

2022

· Semester 2 Dean's Commendation for Academic Excellence

· Semester 1 Dean's Commendation for Academic Excellence

· Mechatronic System Design Project II (METR4810) trophy

2021

· Semester 2 Dean's Commendation for Academic Excellence

· Semester 1 Dean's Commendation for Academic Excellence

· Shortlisted for Rio Tinto Excellence Scholarships and Graduate Program

· Shortlisted for L3 Harris Scholarship in Electrical Engineering

2020

· Hawken Scholar 2020 (top 5% of undergraduate Engineering cohort)

· Prentice Scholar 2020 (top 5% of undergraduate Computer Science cohort)

· Semester 2 Dean's Commendation for Academic Excellence

· Shortlisted for Anglo American Metallurgical Coal Engineering Scholarship

· Semester 1 Dean's Commendation for Academic Excellence

2019

· Semester 2 Dean's Commendation for Academic Excellence

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

· Semester 1 Dean's Commendation for Academic Excellence