RAVINDRA **LIYANAARACHCHI**

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CAREER OBJECTIVE

Final year mechatronic engineering student currently seeking opportunities that will increase my knowledge base and team leadership abilities through experience.

EDUCATION

BACHELOR OF MECHATRONIC ENGINEERING/ BACHELOR OF MEDICAL SCIENCE

Mar 2019 – (Expected) Dec 2024

UNIVERSITY OF TECHNOLOGY SYDNEY

Distinctions:

Programming for Mechatronics Systems | Industrial Robotics | Engineering Project Management Medical Devices and Diagnostics | Design in Mechanical and Mechatronic Systems | Dynamic and Control | Machine Dynamics

High Distinctions:

Mechanics of Solids| Electronics and Circuits | Economics and Finance | Engineering Research Preparation | Manufacturing Engineering

ST DOMINIC'S COLLEGE KINGSWOOD

JAN 2013 – Dec 2018

- College Leadership Team (Pastoral Care Prefect)
- College Band
- College String Group lead

EMPLOYMENT

RETAIL ASSISTANT, 24/7 TERRY WHITE CHEMMART PENRITH

JUL 2017 – Aug 2018

- Processed prescriptions and provided customer service within the shop
- Provided customer assistance on over-the-counter medication

REPLENISHMENT TEAM, KMART PENRITH

JUL 2019 – May 2023

- Back-dock stock processing
- Providing customer assistance
- Developed teamworking skills and customer handling
- Lead small teams of 6-8 people during the day and overnight shifts

INTERN ENGINEER, BROMIC GROUP

MAY 2023 – Current

- Assisted senior engineers in developing project designs and specification
- Assisted in testing and development of new controls
- Developed, tested and evaluated new design of Eclipse Heater

- Established communication with suppliers overseas
- Assisted in product certification for the US, EU and AU regions
- Revised product packaging to increase sustainability by removing single use plastics
- Organised and delivered a BBQ fundraiser to raise money for the Kid's Cancer Project raising ~$1600

TECHNICAL SKILLS

- Microsoft Office Suite (Word, Excel, etc.)
- SOLIDWORKS
- Fusion 360
- MATLAB
- Arduino
- 3D Printing
- SLAM and Feature Tracking
- ROS
- Programming languages: Python, C, C++
- FPGA
- Product Data Management (PDM)

EXTRA-CURRICULAR

- UTS Esports society
  Participated in the intervarsity AEL counterstrike tournaments in 2020 and 2021 placing 3rd and 4th respectively. Premiers' of 2021 varsity tournament in counterstrike.
- Professional Aeronautics and Astronautics Society

PREVIOUS PROJECTS

- Wind Powered Vehicle
  Designed and built a 4-wheeled wind powered vehicle and deployed various sensors with an Arduino to capture data on its trajectory

- Hand Water Pump
  Designed a water pump operating SOLIDWORKS and analysed its performance using software

- Warman Design and Build Competition
  Designed and built a robot controlled by an Arduino, released a payload at designated locations using a telescopic arm

- DoBot Robot Control and Grasping
  Utilising MATLAB and ROS, performed automated task of identifying coloured test tubes and sorting with a robotic arm
  https://www.youtube.com/watch?v=w4Vg-aoBjok

- Simulation and control of robotic arm: UR3, TM5-900, and various others.
  https://www.youtube.com/watch?v=N-AElEZzVfw

- Various Arduino projects with LED's and motors.

REFEREES

Available on Request