

James Ho

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CAREER PROFILE

Penultimate Year Bachelor of Engineering (Mechatronics) and Computer Science student studying at UNSW. I am excited to apply my strong technical and collaborative skills, that I have achieved throughout my time in university, in a real team-based environment that is both challenging and rewarding.

EDUCATION

Bachelor of Engineering (Mechatronics)/Computer Science (2018-2023)

University of New South Wales

RELEVANT PROJECTS

MTRN4230 – Robotics Arm Project

- Effectively worked as a team of 6 students to professionally program a UR5e robot arm to play dominoes from designing to implementation and testing
- Successfully wrote a computer vision node with ROS, to interpret the dominoes' values and positional values taken from the camera node.

MTRN4010 – Computing for Mechatronics (MATLAB Project)

- Processed data collected from an Infrared sensor of a robot to visualise and analyse the surrounding area
- Processed data reduced noise through filtering of objects of interest and adjusted camera angle offset through mathematical formulation

Employment:

Warehouse Assistant (Triumph International Furniture) Jun 2021 – May 2022

- Mentored two new workers to efficiently work together to achieve daily work goals.

Technical Skills:

Programming:

- C/C++ - Advanced
- Python - Advanced
- MATLAB – Advanced
- Version Control – GIT – Advanced
- HTML + CSS + JavaScript - Intermediate

Software:

- SOLIDWORKS – Intermediate
- Microsoft Offices & Teams – Advanced
- Arduino – Advanced
- FUSION 360 – Intermediate
- Webots - Advanced

Workshop:

- Certificate of “Use Hand Tools” and “Use Workshop Machines for Basic Operation” by completing TAFE workshop assessment
- Familiarity and experience with Machines: Metal Lathe Machine, Milling Machine, Grinding Machine, Sanding Machine, Drill Press
- Familiarity with using a private 3D printer

Extracurricular Activities:

“Peace and Planting Sustainability” Arc Volunteering Day

- Helped remove invasive plants and weeds from the Centennial Parkland and planted some native plants in teams
- Learned how to achieve a calm state of mind through meditation and a connection to nature

Side Projects:

- M&M colour sorter machine made via 3D printing and controlled/programmed via Arduino Controller
- Infrared Remote TV Control via Arduino with 3D printed housing
- 3D printed Bionic claw controlled by EMG via Arduino
- Developed an E-commerce front-end web page via HTML, CSS and JavaScript

Recreation:

Basketball: Formed a basketball team with friends and attends a weekly basketball game against other teams.

Video Gaming: Enjoys occasional gaming with friends such as VALORANT.

Basketball:

Gym and Exercise: Enjoys going to the gym to improve my physical and mental health to set personal records.

Referees

Referee name and contact details are available upon request.