

Tashi Visschedijk

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SUMMARY

Passionate Mechatronics and Robotics student at Queensland University of Technology with a strong interest in robotics, autonomous systems, embedded systems and intelligent software. Experienced with Python, C/C++, Linux and microcontroller development through coursework, personal projects and a CSIRO engineering internship supporting Australia's future space operations. Seeking to apply strong software and systems engineering skills to advanced robotics research and development.

EDUCATION

Queensland University of Technology

Bachelor of Engineering (Mechatronics and Robotics)

Feb 2022 – Present

Brisbane, Australia

- QUT Executive Dean's Commendation for Academic Excellence (2024)
- Relevant coursework includes robotics, embedded systems, control systems and real-time software development.

Kanda University of International Studies

Semester Exchange Program

Aug 2025 – Jan 2026

Chiba, Japan

- Completed advanced Japanese language studies and achieved strong academic results

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Rust, C#, MATLAB

Robotics & AI: OpenCV, NumPy, Pandas, Computer Vision, Neural Networks

Embedded Systems: Microcontrollers, Sensor Integration, State Machines, Real-Time Systems

Tools: Linux, Git, KiCad, Fusion360, FreeCAD, Onshape, LaTeX

EXPERIENCE

Engineering Intern

CSIRO

Dec 2024 – Feb 2025

Brisbane, Australia

- Contributed to the development of the Mobile Mission Operation Centre (MMOC), a transportable rocket launch support platform
- Worked within a multidisciplinary engineering team supporting future Australian space missions
- Participated in systems integration, technical problem solving and engineering design activities
- Developed experience working on large-scale engineering systems within a professional research environment

General Executive (Industry Lead)

QUT Robotics Club

Feb 2022 – 2025

Brisbane, Australia

- Collaborated with industry partners and engineering professionals
- Helped organise robotics competitions, project nights and technical events
- Mentored newer members and contributed to a collaborative robotics community

Receptionist / Resident Assistant
Student One Accommodation

July 2022 – Present
 Brisbane, Australia

- Managed day-to-day operational tasks in a fast-paced environment
- Facilitated onboarding and support for residents from diverse backgrounds
- Developed strong communication, teamwork and problem-solving skills

TECHNICAL PROJECTS

Line Following Robot

2024

Embedded Systems Project

C/C++, Sensors, Arduino

- Developed autonomous line-following behaviour using infrared sensors
- Designed and implemented state-machine based control logic
- Integrated sensing, control and embedded software components

Home Security Camera with Facial Recognition

2022

Computer Vision Project

Python, OpenCV, Linux

- Developed facial recognition functionality using OpenCV
- Deployed the system on Raspberry Pi hardware
- Implemented an image acquisition and processing pipeline

Neural Network Vehicle Controller

Personal Project

Artificial Intelligence

JavaScript

- Implemented a neural network from scratch
- Trained an autonomous agent to navigate obstacles in a simulated environment
- Explored machine learning and autonomous decision-making concepts

Robotics and Embedded Systems Side Projects

Ongoing

Personal Projects

Python, KiCad, Embedded Systems

- Explored inverse kinematics and robot arm control concepts
- Designed and built custom electronic hardware including a Bluetooth split keyboard
- Developed embedded software and custom hardware using KiCad and open-source firmware

AWARDS AND CERTIFICATIONS

QUT Executive Dean's Commendation for Academic Excellence (2024)

Japanese Language Proficiency Test (JLPT) N1