

# Benas Vaičiulis

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## SUMMARY

As a motivated robotics engineering student with a strong foundation in control systems, I am passionate about incorporating machine vision into off the shelf robots. With proven experience troubleshooting technical challenges, analysing data for improvements, and collaborating across teams, I bring innovation, precision, and dedication to every project ready to make a meaningful impact in advanced engineering environments.

## PROFESSIONAL EXPERIENCE

### Contactile

Sept 2025 - Jan 2026

#### Mechatronic Engineering Intern

Developed a teleoperation link between a robotic arm manipulator and a UR5e, utilizing Python and C++ to enhance sensor demo quality.

Led a collaborative project with the Lead Engineer to integrate custom hardware with the UR5e, specifically focusing on tactile robotics gripper functionality.

Optimized tactile sensor testing protocols, successfully reducing calibration hardware testing time by 20%.

Actively participated in weekly technical sprints to align project milestones with changing engineering requirements.

### InoSport

#### Engineering Intern

Aug 2022 - Feb 2023

Refined product reliability by identifying design inefficiencies, resulting in a 25% reduction in defects.

Resolved complex assembly tool challenges, which improved design accuracy and decreased manufacturing rework by 30%.

Streamlined PCB development workflows by translating schematics into functional designs, reducing design iterations by 20%.

## NOTABLE PROJECTS

Image reconstruction from event-based cameras for low latency systems

Weather prediction system using machine learning models

Teleoperation control system for UR5 robotic arms

Micromouse Competition

## EDUCATION & CERTIFICATIONS

### Bachelor of Robotics and Mechatronic Engineering

University of New South Wales, Sydney

Feb 2023 - Present

### Coursera

Machine learning Specialisation Certificate - 2025

IBM AI Engineering Professional Certificate - 2025

### Microsoft

Imagine Cup Participant - 2025/2026

## EXTRACURRICULAR ACTIVITIES

### UNSW - Colombo House

Resident Advisor - 2024/2025

### Mountaineer

Mount Breithorn 2015 - Switzerland

Mount Kazbek 2017 - Georgia

Mount Kilimanjaro 2025 - Tanzania

Mount Manaslu 2028 (Target) - Nepal

### Mechanical Engineering Society

Member - 2023 - Present

## KEY COMPETENCIES

Troubleshooting complex technical challenges

3D modelling and printing

PCB development and schematic translation

Structured problem-solving and process optimization

C++ & python

CAD and CAM

Strong cross-functional collaboration and communication

Data analysis for product improvement