

GERARD KENNEDY

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EMPLOYMENT

Firmware Engineer

2021-Present

Finisar Australia

I test and develop firmware for optical communication equipment such as Wavelength Selective Switches.

Skills: Python, C

Tutor/Teaching Assistant

2017 - 2020

Australian National University

Courses: Systems Engineering Design (ENGN2225), Systems Group Project (ENGN4221), Robotics (ENGN4627), Computer Vision (ENGN4528).

Research Assistant

2018 - 2019

Australian Centre for Robotic Vision

I assisted in the development of the vision system for an agricultural harvesting robot, and in the development of a novel simultaneous localisation and mapping algorithm.

Required skills: Matlab, Python, C++, BASH, ROS, Ubuntu

Summer Research Scholar

2015 - 2016

CSIRO, Scientific Computing Section, Canberra

I developed automated hardware and software testing regimes to be implemented on the CSIRO's high performance computers.

Required skills: BASH, C#, C++, Ubuntu

Publication: <https://conference.ererech.edu.au/2018/09/hpc-software-image-test/>

EDUCATION

Master of Philosophy

2019 - 2021

Australian National University & Australian Centre for Robotic Vision

My project involved developing novel state estimation and computer vision techniques for agricultural robotic applications.

Research areas: Robotics, Computer Vision, Robotic Vision

Required skills: Python, C++, Matlab, Ubuntu, ROS, Pytorch, Deep Learning

Publications: <https://gerard-kennedy.com/publications/>

Bachelor of Engineering (Honours)

2013 - 2018

Australian National University

Major in Mechatronic Engineering

First Class Honours

Thesis: https://gerard-kennedy.com/files/thesis_2017.pdf

Bachelor of Science

2013 - 2018

Australian National University

Major in Mathematics

Minors in Physics, Earth Science

AWARDS

Australian Government Research Training Program Scholarship	2019 - 2021
Postgraduate Research Scholarship (Australian Centre for Robotic Vision)	2019 - 2021
First Class Honours, Bachelor of Engineering (Australian National University)	2018
Discovery Translation Fund (Australian National University)	2018
Chancellor's Letter of Commendation (Australian National University)	2017
CSIRO Summer Research Scholarship	2015

MISC.

Engineers Australia Graduate Member	2021
Robotic Vision Summer School Workshop Coordinator	2020
Associate Fellowship of the Higher Education Academy (AFHEA)	2018
Fifty50 First Year Mentor	2017
Engineers Australia Campus Coordinator	2016