# GERARD KENNEDY

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## OVERVIEW

I am a results-driven software engineer with over 4 years of professional experience, specializing in backend development, data management, and high-performance software solutions. Proficient in languages such as C, C++, Python, and Bash, I have a proven track record of delivering scalable and efficient solutions in fast-paced environments. In my current role at Magentus, I design and implement advanced features for billing and data management within a Laboratory Information Management System (LIMS), while also being part of the rapid-response team resolving complex technical issues for global clients. Passionate about continuous learning and innovation, I am eager to take on new challenges and advance my technical skill set.

## EMPLOYMENT

### Software Engineer
Apr 2022 - Pres

*Magentus*

I test and develop Laboratory Information and Management System (LIMS) software used by clients in Australia and overseas. This includes

- developing new back-end features for Evolution vLab related to billing, data management, data visualisation, etc

- being part of the quick response team for dealing with urgent client issues

- involvement in expanding Evolution vLab into the UK market

- managing a project aimed at improving billing data handling

Skills: C, Python, Bash, MySQL

### Firmware Engineer
Mar 2021-Apr 2022

*Finisar Australia*

Responsible for testing and developing firmware for optical communication equipment such as Wavelength Selective Switches. This included

- developed new libraries for data manipulation

- developed and performed long-term performance tests

Skills: C, Python

### 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.

Co-authored several academic papers in the fields of robotics and artificial intelligence.

Skills: Matlab, Python, C++, BASH, ROS, Linux

## 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

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| 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.

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| 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 |