

GERARD KENNEDY

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OVERVIEW

I am a software engineer with over 3 years professional experience. I have experience in a range of languages including C, C++, Python, Bash. In my current role at Magentus, I am part of the rapid-response team for urgent client issues, and am managing my own project involving data management within the billing system. I am versatile, highly motivated and keen to expand my experience and learn new skills.

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

I was 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 customer-requested 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 <i>Australian National University & Australian Centre for Robotic Vision</i> 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/	2019 - 2021
Bachelor of Engineering (Honours) <i>Australian National University</i> Major in Mechatronic Engineering First Class Honours Thesis: https://gerard-kennedy.com/files/thesis_2017.pdf	2013 - 2018
Bachelor of Science <i>Australian National University</i> Major in Mathematics Minors in Physics, Earth Science	2013 - 2018

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