

Lucas Newman

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Location: Waratah, 2298

Portfolio: <https://squidly1408.github.io/>

Skills

- HTML
- CSS
- JavaScript
- Dart
- Flutter
- Python
- Java
- Arduino Code
- Machine learning
- Ai Image Detection
- Autodesk Eagle
- Autodesk Fusion 360

Tools

- Git
- GitHub
- Microsoft Office 365 tools
- VS Code
- Visual Studio
- Arduino
- Adafruit boards
- Raspberry Pi

Soft Skills

- Motivated
- Honest
- Hardworking
- Open to learn new things
- A quick learner
- Logical Thinker

Education

Bachelor of Software Engineering (honours)
The University of Newcastle
On-going

Summary

I am a driven and adaptable student completing my Bachelor of Software Engineering (Honours) at the University of Newcastle. I specialize in Software Development and machine learning, designing, developing, and deploying, with a passion for Electronics, and experience in machine learning, mobile app development, and web solutions. I thrive facing challenges in my work and consistently aim to deliver high-quality results, through my logical thinking, problem-solving skills, and ability to learn quickly.

Projects

I have completed multiple projects, driven by my passion to help others, I have completed each one to my fullest, while testing and reviewing each project in multiple variations.

Augmentative and Alternative Communication App – An app meant to help those who cannot communicate have a basic need. Improving on current market devices and apps, improving customizability and useability based on research and surveys conducted with the potential users.

A glove to convert hand movement to speech for stroke recovery patients – Through multiple variations, testing and improvements, as well as working with [The University of Newcastle](#) and [NuBots](#). I have created the glove to help stroke recovery patients communicate easier.

A social media WebApp designed to increase collaboration – A Social media web app designed for my high school Cooks Hill Campus called [Luvium](#), it is aimed to improve collaboration between student and their projects. Using Flutter, Dart, and Firebase resources. I have designed developed and tested this web app. Currently it is being redesigned for Work Integrated Learning (WIL) and Final Year Project (FYP)'s at [The University of Newcastle](#) to help students, lecturers, professors, and companies and/or organisations.

Experience

Software Engineer Level 2 / Undergraduate Software Developer |

SAPHI Engineering – I completed an internship with [SAPHI Engineering](#) from June 2022 until September 2024 (2 years, 10 months) Where I ended up fully joining their team as a Software Developer and worked my way to Software Engineer Level 2.

Intern | Clickk Newcastle – I conducted an internship with [Clickk Newcastle](#) for a few weeks. I was part of the team there and assisted with website and graphic design tasks.

Collaborative Innovation Student from Big Picture Education | The University of Newcastle – I have worked with an Associate Lecturer, Senior Lecturer, Associate Professor and a Professor on my social media webapp for [UON](#) and my stroke recovery communication glove.

Freelance Software Developer | Big Picture Education Australia – I coded a website to create a digital version of their graph, [Big Picture Education Australia](#) proceeded to use this for their students to demonstrate the learning capabilities. [<https://bpe-flower.github.io/>]

Quotes



"Lucas is a rare kind of student, motivated, innovative, and determined to make a positive impact on the world around him. It is a rare joy to find a student with such focus and drive, I look forward to seeing his education and career prosper." - **Dr. Jacqueline D Bailey, Lecturer - Computing & IT, School of Information and Physical Sciences, The University of Newcastle**



"Lucas was an absolute pleasure to deal with. He assisted us with some website and graphic design tasks. He performed them to a very high standard. I have no hesitation in recommending Lucas to any local design or development companies." - **Chris Chapman, Director of Clickk Pty Ltd**



"Lucas is a talented future engineer with a bright future ahead. He has a passion for technology and it shows!" - **Liam, CCO of SAPHI Engineering**



"Lucas contributed an interactive javascript module for the Big Picture Learning Australia's website. He was a pleasure to work with. He was highly responsive to any feature requests and his code was clean, effective and elegant. Lucas is the kind of student who clearly demonstrates the effectiveness of the Big Picture Learning design to help students thrive and we look forward to working more with him in the future." - **Joe Wickert, CTO Big Picture Learning Australia**



"I met Lucas when he was a high school student conducting a project under the Big Picture program. The goal was to build an Auslan glove, using a Raspberry Pi and an array of sensors - to determine the positions of the hand joints - and then AI techniques to process the data and translate hand movements into language"... "and Lucas has demonstrated deep knowledge of both the hardware and software for the project, as well as lots of enthusiasm and curiosity, which are rare traits in high schoolers." - **Dr. Alexandre Mendes, Senior Lecturer - Computing & IT, School of Information and Physical Sciences, The University of Newcastle**