# Derick Luke

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**Portfolio & Projects:**
**https://derk06.github.io/dericksPortfolio/**
***(Detailed breakdown of robotics, AI, electronics, and programming projects showcased here)***

## Summary:

A creative and adaptable individual with a strong drive for innovation and hands-on learning. Passionate about exploring new technologies and delivering meaningful contributions that create a positive impact for all stakeholders and society. Self-motivated, proactive, and thrives in diverse, challenging environments that offer continuous learning and growth opportunities.

## Education:

### UNIVERSITY | 2025 - 2028 | UNIVERSITY OF WOLLONGONG, NORTHFEILDS AVE, NSW

- **Completing Bachelor of Engineering (Honours)(Mechatronics)**

### COLLEGE| 2023 - 2024 | BURGMANN ANGLICAN SCHOOL, GUNGAHLIN, ACT

- **Completed year 12 at Burgmann Anglican School**

## Awards and Certifications:

- First Aid Course - Completed (2022)
- Completed Electric Circuits for Electrical Engineering Electronics – Udemy (2022)
- Lockheed Martin Cybersecurity Competition – 3$^{rd}$ Place (2023)
- Pecan Cybersecurity Competition – 1$^{st}$ Place (2023)
- Completion of ASD Cybersecurity and Robotics Work Experience Program – (2024)
- Completed Electrical Engineering: Power Electronics Masterclass – Udemy (2024)
- Completed TensorFlow for Deep Learning Bootcamp – Udemy (2024)

## Professional Experience:

### SERVICE DELIVERY OFFICER | AUSTRALIAN TAXATION OFFICE | 2025 – Present

- Provided high-quality customer service and assistance to clients across various taxation matters
- Resolved client queries efficiently while maintaining confidentiality and adherence to government policies
- Demonstrated strong communication, problem-solving, and teamwork skills in a fast-paced service delivery setting

### EMPLOYEE | KFC | 2023

- Worked effectively within a fast-paced team environment
- Provided excellent customer care and support
- Handled customer queries
- Adapted to new environments and problems with ease

### LEADING CADET | AAFC | 2020 - 2023

- Handled large groups of people and effectively communicated orders to them.

- Followed through with complex orders given by someone higher up

- Engaged a large group of people in various activities

## Additional Experience:

### STUDENT | AUSTRALIAN SIGNALS DIRECTORATE | 2024

- Problem-solved complex situations and investigative tasks

- Effectively communicated ideas and solutions clearly to other work-experience students

- Delivered a well-presented speech communicating to a large crowd about an investigative case

### SPEAKER | PYCON | 2024

- Designed and built a 3D-printed bipedal robot capable of learning to walk using the **TD3 reinforcement learning algorithm**, self-taught through independent study and experimentation

- Developed and implemented a multi-stage power management system with dual-battery switching, voltage regulation, and hardware protection for reliable long-duration operation.

- Integrated sensors, Arduino microcontrollers, Raspberry Pi, and computer vision to enable real-time feedback and control for the robot's learning process.

- Presented the project at **PyCon AU 2024**, demonstrating the robot's learning capabilities as part of a collaborative showcase on practical applications of Python and AI.

(Full project details available in portfolio: https://derk06.github.io/dericksPortfolio/pt-self-walking-robot.html)

## Skills & Abilities:

### Communication Skills:
· Strong analytical and technical writing skills with the ability to communicate confidently and adaptively in face-to-face interactions.
· Values teamwork and collaboration, recognizing that diverse teams foster innovation and improved results.
· Adapts communication style to suit various audiences in group projects and competitions.

### Technical Skills:
· Proficient in Microsoft Office applications: Word, Excel, and PowerPoint.
· Skilled in programming languages: HTML, CSS, JavaScript, PHP, Python, C++, C, C# and node.js.
· Experienced with creative and technical tools: Photoshop, Fusion360, FreeCAD, AutoCAD, KiCAD, Unity, and Blender.

### Self-Motivated:
· Punctual, adaptable, and eager to engage in new challenges and learning opportunities.
· Actively seeks exposure to diverse environments and responsibilities.

### Interpersonal Skills:
· Communicates and cooperates effectively to contribute to productive and positive workplaces.
· Adapts easily to new environments and complex situations.
· Demonstrates respect for others' contributions and maintains impartiality during collaboration.
· Displays leadership when required, fostering strong relationships and ensuring customer satisfaction.
· Takes responsibility during conflicts and ensures timely, high-quality task completion.
· Works independently or collaboratively in fast-paced, high-pressure settings