

Luke Howard

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Education

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| Bachelor of Engineering (Mechatronics)
University of Technology Sydney (UTS) | Feb 2020 - Dec 2024 (expected) |
| <ul style="list-style-type: none">• Sub-major in Computer Science (Data Analytics and Computational Theory)• GPA 5.61• WAM 77.97 | |
| Diploma in Innovation
University of Technology Sydney (UTS) | Jan 2024 - Dec 2024 (expected) |
| NSW High School Certificate
Gosford High School, Gosford | Jan 2014 – Dec 2019 |
| <ul style="list-style-type: none">• Sports Captain• Australian Youth Aerospace Forum Attendee• ATAR 91.5 | |

Professional Experience

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|--|----------------------------|
| Technical Assistant
UTS | May 2023 – Current |
| <ul style="list-style-type: none">• Assisting with facility and infrastructure operations for the FEIT faculty• Developed operational procedures which were adopted faculty-wide• Created tailored documentation for software systems such as Honeywell's EBI 600 and Traka's Touch Pro | |
| Bar Manager
ActivateUTS | Oct 2022 – May 2022 |
| <ul style="list-style-type: none">• Responsible for all operational activities for 2 hospitality venues• Managed a team of over 20 people across 3 venues.• Conducted inventory management, end-of-month (EOM) tasks, and back-office (BOH) responsibilities. | |
| Business Director and Senior Engineer
UTS Motorsports Electric (UTSME) | Jul 2020 – Dec 2022 |
| <ul style="list-style-type: none">• Revitalized and led a 10-member business team, overseeing sponsorship, marketing and financial activities.• Monitored junior engineers across technical design projects for the electric FSAE competition.• Key involvement in significant projects such as Vehicle Dynamics (Sensors, Steering), and the 2020/2022 Aerodynamics package | |

Extra-Curricular Activities

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|---|---------------------------|
| Director
ActivateUTS | Oct 2023 - Current |
| <ul style="list-style-type: none">• Elected by students during 2022 student elections and later selected for a company director role with ActivateUTS• Contributing to advisory committees for strategic decision making | |
| President
UTS Motorsports Society | Dec 2021 - Current |
| <ul style="list-style-type: none">• Expanded the society to its highest recorded membership (134)• Implemented recurring events such as fortnightly Go-Karting, to enhance inclusivity and visibility | |

Technical Skills

- Python
- C/C++
- MATLAB
- ROS
- Microsoft Suite (Word, Excel, PowerBI)
- CAD (SolidWorks, Fusion360)
- Web Development (HTML, CSS, JS (React))
- Git

Certifications

- **BI Dashboards with PowerBI (Sep 2023)**
 - Code Academy
- **JavaScript (May 2023)**
 - Code Academy
- **Python 3 (Mar 2023)**
 - Code Academy
- **CSS (Aug 2022)**
 - Code Academy
- **HTML (Aug 2022)**
 - Code Academy
- **MATLAB (Sep 2021)**
 - MATLAB Coding

Transferable Skills

Transdisciplinarity – A skill that enables adaptability and effective communication across different disciplines. This is essential for solving complex problems that require large teams and many disciplines. Utilizing this skill, I streamlined business processes within the UTSME Team by applying my technical engineering knowledge and consulting business experts to develop procedures all team members (not just business) could use to reach out to sponsors and develop marketing material.

Leadership – Leadership is an essential role for any professional role. I have a passion for bringing out the best in people and helping them to produce the highest quality of work they are capable of. Through my demonstration of leadership, I was successful in achieving the position of Business Director of UTSME.

Creativity – A high focus on out of the box thinking and innovative problem solving. Utilizing my passion for creativity and design I successfully re-branded UTS Motorsports (Electric, Society and Autonomous), personally contributing to graphic generation and selection. I re-designed the team website and associated graphics/front-end, later continuing this work implementing backend framework.

Referees

Available upon request