

Christian Higgins

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Objective

Enthusiastic and motivated mechatronics engineering and physiology student seeking to join Monash Heart Hack and contribute technical skills and anatomical knowledge in the design and development of a mock circulatory loop (MCL). My other non-technical involvement, including as Vice President of Engineers Without Borders, allows me to collaborate with peers on challenging projects. Being part of Monash Heart Hack will allow me to gain relevant experience in developing my expertise in biomedical engineering.

Academic Qualifications

02/2023 – Present	Bachelor of Engineering (Honours) Monash University, Victoria Specialisation: Mechatronics Engineering (Artificial Intelligence)
02/2023 – Present	Bachelor of Science Monash University, Victoria Major: Physiology Minors: Anatomy & Developmental Biology; Mathematics

Relevant Courses

Courses Completed

- ENG1011 (Engineering Methods) – used SolidWorks for design and engineering drawings, and CuraSlicer for 3D printing.
- ENG1012 (Engineering Design) – conducted technical, social and environmental research to aid the design of a water filtration system and tank for Indigenous communities.
- ENG1013 (Engineering Smart Systems) – used Python programming, arduinos and electrical breadboards in order to build an automated water tank.
- BIO1022 (Life on Earth) – research and examined the basics of physiology, anatomy and immunology across living systems.

Courses Currently Studying

- PHY2011 – Neuroscience of Communication, Sensory and Control Systems
- DEV2011 – Early Human Development from Cells to Tissues
- MEC2402 – Design Methods

Skills

- Proficient in SolidWorks, Computer Aided Design and Python.
- Strong problem solving and research capabilities in biological and engineering contexts.
- Strong teamwork, communication, project management and time management skills.

Professional Employment History

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|--------------------------|---|
| 02/2024 – Present | Sleep Science Intern – SleepCare Solutions
Noble Park, Victoria
Conducting patient sleep apnea diagnostics and CPAP therapy. |
| 07/2022 – 02/2023 | Marketing & Design Intern – Christ’s College, Canterbury
Christchurch, New Zealand
Photography, journalism and proofreading of publications. |

Extracurricular Activities

- | | |
|--------------------------|---|
| 10/2023 – Present | Vice President – Engineers Without Borders Monash University <ul style="list-style-type: none">● Coordinating and managing club activities and events.● Assisting the President in club activities and administrative tasks.● Involved in long term planning for club strategies and ensuring systems are in place and are being adhered to. |
| 01/2024 – Present | Residential Advisor – Monash Residential Services <ul style="list-style-type: none">● Event management and planning across Deakin Hall and MRS-wide events.● Fostering the wellbeing of residents through pastoral care.● Working alongside other Residential Advisors in developing hall culture. |

References

Available upon request.