

Oliver Bilston

✉ bilstonoliver@gmail.com ☎ 0426 562 908 in Oliver Bilston 🌐 Portfolio Website

Profile

Mechanical Engineering and Business Analytics student with hands-on experience in aviation, mechanical, and electromagnetic design. As part of Monash Uncrewed Aerial Systems I led the development of a custom Brushless DC motor as project lead for the propulsion sub-team. Was recently appointed to the position of Chief Operating Officer for the 150 person team, and currently contributing to a novel USV design. Recognized for strong people skills, adaptability, and problem-solving, with a proven track record in multidisciplinary engineering teams. Driven by a passion for engineering and how it integrates with business and its impact on the world.

Education

Monash University <i>Bachelor of Mechanical Engineering (Honours) and Business Analytics</i>	<i>Jan 2022 – Current</i>
KU Leuven - Exchange Program <i>Bachelor of Mechanical Engineering (Honours) and Business Analytics</i>	<i>Feb 2025 – Jun 2025</i>

Technical Experience

Chief Operating Officer <i>Monash Uncrewed Aerial Systems</i>	<i>Clayton, VIC</i> <i>July 2025 – Current</i>
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- Worked as the Chief Operating Officer for a student team comprised of 150+ student engineers
- Responsible for overall management, team direction, and coordinating international travel
- Oversaw team finances, culture, engineering documentation, and recruitment.

Propulsion Engineer <i>Monash Uncrewed Aerial Systems</i>	<i>Clayton, VIC</i> <i>Jan 2024 – Current</i>
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- Worked as project lead for a multifaceted team designing custom BLDC electric motors for competition.
- Nurtured a juvenile team, promoting knowledge growth, performing high-level EMAG FEA simulations and optimisations to create motors that were 15% more efficient than OTS replacements whilst being reliable and light.
- Worked with sponsors to arrange funding and knowledge transfer to aid our team.

Research Project - Development of a modular, multimodal capable ASV for low impact shallow reef and ocean surveying <i>Monash University</i>	<i>Clayton, VIC</i> <i>July 2025 – Current</i>
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- Working with a small team of multidisciplinary engineers to design and build an ASV capable of serving the science community and enabling better understanding of our oceans.
- Scoped and justified this project with literature, engaging with industry stakeholders and assessing project demand.

Medical Administrative Assistant <i>Skin Cancer Day Surgery</i>	<i>Ashwood, VIC</i> <i>Apr 2024 – Current</i>
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- Organised surgeries and consultations for elderly patients with dermatologists.
- Coded medical procedures and created WI's to improve workplace efficiency

Extensive extra work experience in Ski Resorts, Restaurants/Bars and Supermarkets

Skills

Languages: Matlab, Python, JavaScript, SQL, C++

Technologies: SolidWorks, Ansys, Creo, Simulink, Blender, Photoshop, Microsoft 365, Fusion

Fabrication: Additive Manufacturing, Light Fabrication, Metalworking, Soldering, Rapid Prototyping

Accreditation

Certificates: Finite Element Analysis (FEA) and Computational Fluid Dynamics (CFD) (Leap Australia), ASSOCIATE - Mechanical Design (Dassault Systems), Light Fabrication, Composites, Low Voltage, Responsible Service Of Alcohol, Food Safety, Silver Service