

# Felix Hasdell

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## EDUCATION

### RMIT University

Bachelor of Mechanical Engineering (Honours) &  
Bachelor of Industrial Design (Honours)

• WAM: 79/100 | GPA: 3.0/4.0 | Major: Design for Advanced Manufacture

**Graduating 2027**

Melbourne, VIC

## EXPERIENCE

### IGNIS Aero

Founder

**May 2026 - Present**

Melbourne, VIC

- Founded Ignis Aero to develop long-endurance eVTOL UAS to detect, track and map emerging bushfires.
- Leading development of an autonomous aerial monitoring system using onboard sensing and live geospatial mapping to support quicker bushfire detection and response.
- Won the RMIT ACTIVATOR Award for Most Impactful Startup.

### St Michael's Grammar School

Design Workshop Technician

**Jun 2024 - Oct 2024**

St Kilda, VIC

- Taught students' safe operation of 3D printers, Laser cutters, CNC machines, MIG Welder, Bandsaw, Table Saw and Drill Press.
- Supervised student projects and provided practical guidance to help transform design concepts into finished projects.

### Banyule Nillumbik Tech School

Makerspace Technician

**Jul 2023 - Dec 2023**

Greensborough, VIC

- Supported teachers in delivering after-school educational programs, such as makerspace prototyping sessions, through teaching, preparing materials and guidance.

## ENGINEERING TEAMS & COMPETITIONS

### RMIT AIAA Design/Build/Fly Competition Team

Aerostructures Lead

**Aug 2025 - Present**

Wichita, KS, USA

- Leading the aerostructures team for the 2027 competition, coordinating aerodynamics analysis, composite structural design, manufacturing and flight testing.
- Made key contributions to the 2026 team's 1st-place written proposal, 3rd-place design report and 22nd-place overall result among nearly 200 international teams.
- Manufactured carbon-fibre wet-layup sandwich panels for the fuselage using an experimental cut-and-fold construction method.
- Evaluated aerodynamic performance of competition aircraft using XFLR5 and ANSYS Fluent and conducted wind-tunnel testing to optimize cruise performance.

### RMIT Uncrewed Aircraft Systems Research Team

Research Project Coordinator

**Sep 2025 – Jul 2026**

Bundoora, VIC

- Responsible for coordinating research projects for the RMIT UAS Research Team, including project ideation, parts procurement, planning and collaborating with industry partners and academics.
- Led a small team developing a low-cost cardboard fixed-wing UAS in conjunction with a webcam pan-tilt ground station that uses computer vision to detect and track the aircraft.

### RMIT Motorsport Formula SAE

Chassis Team

**Jun 2025 – Mar 2026**

Bundoora, VIC

- Manufactured carbon-fibre prepreg sandwich structures for the monocoque, completing outer-skin, core and inner-skin layups to meet Formula SAE structural requirements.

### Warman Design and Build Competition

Mechanical Design Team

**Mar 2024 – Jun 2024**

RMIT University

- Designed, built and programmed a ball-collection robot in a small team for the 2024 Warman Competition, achieving RMIT's second-fastest successful completion time for that year.

## SKILLS

**CAE:** SolidWorks, Abaqus, Fusion, ANSYS Fluent, ANSYS Mechanical, XFLR5, Mach3

**Programming & Electronics:** Python, Arduino IDE, ABB robot studio, LabVIEW

**Manufacturing:** Composite layup, CNC machining, MIG welding, 3D printing, Soldering, Lathe

**Languages:** English (Native), Mandarin (Fluent)

## CERTIFICATES

SolidWorks CSWA | Working with Children Check | Victorian Driver License