

Ian Hooper

✉ ianfhooper@gmail.com ☎ 0419 197 949 🏠 Lesmurdie, WA 6076

Summary

An experienced mechatronic engineer with a broad skill set, specialising in embedded systems and with an interest in robotics, control systems, power electronics, electric vehicles and renewable energy. A strong aptitude for physics and mathematics, and a talent for finding elegant solutions to difficult problems.

Career History

2023-2024 Enautic Pty Ltd, Booragoon WA

Development of electronics, software and control systems for the prototype WaveFlyer electric hydrofoil boat.

2022-2024 CSIRO Space & Astronomy, Kensington WA

Development of software for remote telemetry and control of radio telescopes for the Australian Telescope National Facility.

2007-2021 Zero Emission Vehicles Australia, Lesmurdie WA

A personal business venture involved with the design, manufacture and integration of components for electric vehicles.

2011-2015 Entecho Pty Ltd, Osborne Park WA

Design of electronics and embedded software for power and control systems in a prototype electric VTOL aircraft.

2009-2011 EV Works Pty Ltd, Kewdale WA

Co-founder and R&D engineer. Development, production and supply of components for electric vehicles.

2006-2009 LazerSafe Pty Ltd, Malaga WA

Development of image recognition algorithms for hydraulic press safety systems.

2004-2006 Immersive Technologies, Osborne Park WA

Software development with the dynamics team for mining vehicle training simulators.

Personal Portfolio

Please visit ianfhooper.com to view some of my personal projects.

References

References available on request.

Key Skills

• **Software Development**

- STM32, AVR, PIC, Linux, Windows, MacOS, Android
- C, C++, Python, JS, PHP, C# and other languages
- Source control, automated testing, documentation, CI/CD

• **Electronics and PCB Design**

- KiCad, Eagle, some Altium
- Microcontrollers, mixed-signal systems, power electronics, EMI compliance
- UART, SPI, I2C, CAN, BLE, etc

• **Mechanical Engineering**

- OnShape, SolidWorks, Fusion360, FreeCAD
- CAM / CNC machining
- Composites fabrication

Education

2009-2011

Master of Engineering Science

University of Western Australia

1997-2001

Bachelor of Engineering (Mechatronics) with Honours

Curtin University of Technology

Other Interests

- Science and Technology
- Effective Altruism
- Multi-day Hiking
- Rock Climbing