

# Michael Fahey

[michaelfahey42@gmail.com](mailto:michaelfahey42@gmail.com) | +44 7535 034860 | [www.linkedin.com/in/mike-fahey-64077519a/](https://www.linkedin.com/in/mike-fahey-64077519a/)

## Education

### University of Manchester

*MSc Robotics*

Sept 2025 – Expected Sept 2026

- Exploring ROS2, robotic manipulators, autonomous mobile robots, control theory and actuator kinematics

*BSc (Hons) Computer Science: Final Grade 75.4%: First Class with Honours*

Sept 2022 – June 2025

- Undertook software development in Python and C++ among other programming languages, explored themes including data science, computer vision, machine learning, chip development and microcontroller programming

## Experience

### Manchester Stinger Motorsports – Manchester Formula Student

*Team Leader*

July 2024 – Present

- Directed a 150-member team to deliver the university's first electric vehicle to FSUK competition, obtaining positive validation on high voltage battery design and feedback to guide future design improvements
- Distinguished 100 new members from 400 applicants through a multi-stage recruitment process, retained 70% of recruits for a 2<sup>nd</sup> season, the most successful onboarding in team history
- Secured £1000 sponsorship for electronic components and tooling, facilitating use of mil-spec connectors
- Exercised safe practices in high voltage work attracting commendation from FSUK competition scrutineers

*Electrical Sub-team Leader*

July 2023 – July 2024

- Secured £2000 Cosworth data acquisition equipment sponsorship, integrated data logger into existing electrical systems and analysed testing data to influence team wide design choices
- Built vehicle electrical systems ahead of schedule and passed all competition inspection of functionality
- Established a new team standard for wiring harness design, detailing connector specification and environmental protection whilst increasing focus on CAN based systems resulting in harness weight reduction
- Improved sub-team training by adding active learning tasks and retained all sub-team members for another season

*Electrical Engineer*

Sept 2022 – July 2023

- Designed a custom vehicle harness connecting 20+ vehicle sensors and actuators to a third-party ECU, enabling engine performance optimisation and data acquisition to influence design goals

### The Green Dragon Public House, Flaunden

*Junior Chef*

Nov 2020 – May 2022, June 2023 – Sept 2023, June 2024 – Sept 2024

- Maintained high food hygiene standards whilst efficiently preparing dishes in a high-pressure kitchen environment

## Projects

### Third Year Dissertation

Apr 2025

*"Developing a Digital Driver Dashboard for the University of Manchester's Formula Student Car"*

- Developed software in C++ to decode CAN data into a concurrent access data structure, displayed vehicle data in a real-time graphical interface, maximised refresh rate (60Hz) for accessible viewing by the driver
- Built Python-based CAN testbench for off-vehicle validation of telemetry data decoding pipeline
- Configured interface to provide real-time diagnostic data readout for fault diagnosis and live performance analysis
- Designed a chassis mount enclosure for the chosen Raspberry Pi hardware, suitable for additive manufacture

## Awards & Certifications

- C&G Level 2 Award in Safe Maintenance of Electric & Hybrid Vehicles Dec 2023
- C&G Level 3 Award in Component Removal and Replacement in Electric & Hybrid Vehicles Dec 2023
- Craig Dawson Award for 'Most Valuable Team Member' at FSUK 2023 July 2023

## Skills

Programming & Data Analysis: Python, C++, Java, NumPy, Pandas, Matplotlib

Engineering Tools: Verilog, Git, SolidWorks, Fusion 360, CAN systems

Other: Spreadsheets, Web Development, Livestreaming tools