

# Finn Morris

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## EDUCATION

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### University

November 2024

*Curtin University*

Bachelor of Mechatronic Engineering Honours, Bachelor of Computer Science

## EXPERIENCE

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### IoT Engineer Curtin University – Bentley, WA

November 2024 - Present

- Designed and led the development and operation of the SmartCampus IoT platform, delivering 15+ use cases (parking utilisation, water/gas metering, people counting, bus usage, etc.)
- Architected and deployed 50+ new IoT devices (LoRaWAN, 4G) across two campuses, growing network to 220 sensors with <1% downtime
- Integrated IoT data with ArcGIS (mapping), Gallagher (access control), Genetec (CCTV), Asset Management and BMS platforms—unlocking unified analytics and workflow automation
- Consulted on and evaluated early-stage proof-of-concepts, shaping technical roadmaps and feasibility assessments.

### IoT Technician Curtin University – Bentley, WA

April 2021 –

November 2024

- Managed a dual-band private LoRaWAN network (10+ gateways), sustaining 99.5% uptime.
- Integrated security systems with digital signage, enhancing campus safety measures and alerting.
- Facilitated the wireless monitoring of gas and water utility metering, optimising resource management.
- Facilitated wireless gas and water metering, optimising usage and realising >\$70 000 in cost savings.
- Integrated emergency signage into digital signage, facilitating emergency workflows and enhancing safety.
- Designed and built a smart crosswalk controller, enhancing pedestrian safety and traffic flow.

### IoT Assistant Curtin University – Bentley, WA

April 2020 – April 2021

- Designed data visualisations, aiding in the interpretation and analysis of IoT sensor data.
- Assisted in the deployment of new IoT sensors, ensuring proper installation and functionality.
- Maintained existing sensors across the campus, conducting maintenance and troubleshooting activities.
- Facilitated communication between stakeholders and third-party companies, ensuring smooth collaboration and project implementation.
- Assisted with troubleshooting activities for various IoT solutions, identifying and resolving technical issues in a timely manner.

## PROJECTS

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### Smart Campus IoT Platform

Designed and deployed 200+ IoT sensors across two campuses using LoRaWAN, MQTT, and AWS. Delivered real-time data processing, storage and visualisation for over 15 use cases.

### Object Detection & Counting

Trained computer vision models to detect and classify vehicles from CCTV footage using YOLOv8.

## SKILLS

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**Languages:** TypeScript, Python, C, C++, Java, MATLAB, Simulink

**Other Technologies:** Arduino, REST API, MySQL, Git, GitHub, Amazon Web Services (AWS), Linux, Microcontrollers

**CAD Software:** AutoCAD, Fusion360, SolidWorks

**Fabrication:** 3D Printing, Soldering, Circuit Assembly