

# GORDON TRINDER

[gordontrinder@gmail.com](mailto:gordontrinder@gmail.com)

Project info available @  
[www.gordontrinder.com](http://www.gordontrinder.com)

Versatile engineer with experience in firmware, software, and hardware development for socially and environmentally driven technologies. Comfortable in fast-paced startup environments, with a hands-on approach to problem-solving, leadership, and multidisciplinary collaboration.

## PROFESSIONAL EXPERIENCE

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### Senior Embedded Systems Engineer

Vertical Future | August 2022 - Present

- Developed and integrated control software for automated vertical farm machinery, including seeders, conveyors and robots for moving plants between processes
- Led and expanded the Embedded Systems team from 2 to 5 engineers, managing workload, mentoring staff, and coordinating projects to transition from isolated machines to a fully integrated farm for food production and trials.
- Wrote mid-level control software in Python, interfacing with farm subsystems via RS485, Modbus, and RPC.
- Conducted onsite testing and technical support; covering wiring, software validation, network setup, and maintenance
- Managed PCB production, maintained server, defined subsystem requirements, and improved engineering processes.

### Mechatronics Engineer

ALP Technologies | April 2021 - July 2022

- Developed mechanical, electronic and software features for smart, scalable battery system to be deployed in low-income countries
- Delivered client project: Full circuit and Altium PCB design for IoT sensing device, including board assembly and testing
- IoT firmware and software development using C++/Python to interface with edge devices via MQTT.

## EDUCATION

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### MsC Applied Mechatronic Engineering

Harper Adams University | 2019  
Distinction

### MEng Electrical & Electronics Engineering

University of Edinburgh | 2013 - 2018  
2:1

## SKILLS & PROFICIENCIES

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SW/FW Development | [Python/C++]



Circuit design and PCB layout



Hardware prototyping



Engineering management



## INTERESTS

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- Cooking
- Cycling
- Dancing
- Repair - Clothes, Electronics, Bicycles

## AUTOMATION & HARDWARE ENGINEER