

Rafael Moreno

Firmware developer

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Firmware developer with ten years on small battery-powered devices, in C and Rust. I take a board from bring-up to a release build and look after it once it ships.

EXPERIENCE

Independent firmware developer

2022-03 – Present

Self-employed · Pittsburgh, PA

Firmware for hardware startups, two clients at a time, from bring-up to release.

Lead firmware engineer

2018-06 – 2022-02

Tidewell · Pittsburgh, PA

Led a team of three on LoRaWAN water sensors, 1,400 units in the field.

Embedded software engineer

2014-08 – 2018-05

Lumen Cycle · Boulder, CO

Wrote display, Bluetooth and power code for bike lights and computers.

EDUCATION

B.S. Computer Engineering

2010-08 – 2014-05

University of Pittsburgh · Pittsburgh, PA

Senior project: a solar-powered trail counter.

Embedded Rust certificate

2019-01 – 2019-04

Ferrous Workshop · Online

Twelve weeks on drivers, interrupts and async on bare metal.

SKILLS

C	●○○○○	**Rust**	●○○○○
Zephyr RTOS	●○○○○	**Bluetooth LE**	●○○○○
LoRaWAN	●○○○○	**KiCad**	●○○○○