

Complete product engineering

One engineering engagement across electronics, firmware, prototypes, and system validation. We align interfaces and delivery milestones so individual components become a coherent, maintainable product.

WHAT WE CAN DO

01

Architecture & planning

Translate product goals into requirements, interfaces, technical risks, and a milestone plan.

02

Hardware & firmware

Coordinate electronics, embedded software, communication, and control as one system.

03

Prototype integration

Bring up prototypes, investigate integration issues, and revise against measured evidence.

04

Validation & transfer

Check agreed requirements and package the design, source, builds, and documentation for ownership.

TECHNOLOGIES & WORKING AREAS

System architecture / Electronics / PCB / Embedded software / Prototyping / Integration / validation

A CLEAR PATH TO HANDOVER.

WHAT YOU RECEIVE

- Architecture and engineering milestone plan
- Agreed electronics and software deliverables
- Integrated prototype or system demonstration
- Verification results and limitations register
- Source, design files, and technical handbook

HOW THE WORK PROGRESSES

- 01 **Frame the product**
User needs, constraints, scope, and risks.
- 02 **Architect the system**
Interfaces, components, and delivery milestones.
- 03 **Build & integrate**
Prototypes and software against the plan.
- 04 **Verify & transfer**
Acceptance evidence and complete handover.

RELEVANT ENGINEERING

Autonomous Disaster-Recon UGV

An integrated platform spanning sensing, embedded control, autonomy, and communications.

ESP32 Battery SoC/SoH Monitor

Sensors, firmware, on-device inference, and a React dashboard.

TO SCOPE YOUR PROJECT

- / Product brief and intended use
- / Target interfaces and operating environment
- / Existing designs, prototypes, or code
- / Timeline and acceptance priorities

LET'S DISCUSS YOUR PROJECT

hello@embedly.dev

