

Railab Srl

Italian bespoke studio of robotics and applied AI · Brescia · since 2018

Who we are

Italian studio specialized in industrial robotics, applied AI and software-intensive robotic skills. We work where a catalog product does not solve the problem and a technical partner capable of designing the end-to-end solution is required. We do not resell hardware, we are not a generic software house: we design, prototype and bring into production **robotic skills as exportable intellectual property**. We operate as a senior, highly qualified team, deliberately small, with a portfolio of clients followed across multiple project generations, kept restricted by design.

Credentials

- **4 Japanese patents with the Railab team listed as inventor** (JP2021094646A, JP2021094647A, JP2025051953A, JP2025056491A)
- **DENSO Wave Incorporated Golden Partner** — certified 2024
- **Historical clients DENSO Wave and Yamazaki Mazak (Japan) — over 40 projects in total**
- **ISO 9001:2015** — Bureau Veritas IT338195, valid through December 2027
- **SIRI Membership** — Italian Association of Robotics and Automation

What we do

- **Robotics and automation** — custom skills (bending, press brake, assembly, pick-and-place, palletizing, inspection), machine vision, graphic programming with automatic path planning and collision avoidance
- **Applied AI and predictive systems** — computer vision, predictive maintenance, anomaly detection, digital twin, AR/VR, sensor fusion, imitation learning
- **RF, IoT and mission-critical communications** — RTLS/UWB, LoRa mesh networks for emergencies, custom embedded firmware

Selected work — public references

- **Blockly graphic programming** of the **DENSO Wave COBOTTA PRO** cobot, distributed worldwide — denso-wave.com/en/robot/ex/cobottapro.html
- **Palletizing Builder** integrated in WINCAPS Plus, DENSO Wave application for VL series robots — denso-wave.com/en/robot/product/five-six/VL2500.html
- **Unity Digital Twin, QR-code automatic calibration system and 3D vision from 2D camera** presented at the DENSO Wave booth at iREX 2023 Tokyo — youtu.be/m6oDN8cFDIM

Why this matters today

In robotics, competitive advantage increasingly rests on software. The hardware is mature and accessible; it is the software layer — vision, applied AI, vertical skills — that today makes a platform more competitive and more compelling to the end customer. The independent specialists able to build that layer, on top of any catalog platform and alongside the manufacturer, are rare. An independent engineering partner — four Japanese patents with the team as inventor, ISO 9001, consolidated industrial relationships — does not compete with those who build robots: it multiplies their value.

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For the full Company Profile or a technical briefing on specific capabilities, write to info@railab.com.