

# Umberto Barzan

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Piazza Mercato, 18b – Villa Santina  
(UD)

## Education

### Higher Technical Diploma in IoT and Artificial Intelligence (EQF 5)

ITS AltoAdriatico - Amaro

11/2024 – present

### Bachelor's Degree in Linguistic Mediation (L12)

Università Unimercatorum

2021 - 2024

### High School Diploma in Mechanical Engineering

Istituto Tecnico Industriale

"Alessandro Volta" - Trieste

2008 – 2013

## Hard skills

### Programming languages:

Python, HTML, Javascript, CSS  
(base)

**AI & computer vision:** YOLOv8, Anomalib, Segment Anything, OpenCV, PyTorch, OpenVINO, Addestramento modelli, gestione dataset, inferenza in real-time, Elaborazione immagini, salvataggio e logging su sistemi embedded

**Database:** SQL, NoSQL

### IoT & Automation:

MQTT, Grafana, NodeRed, OPC-UA, conoscenza di base di sensori e attuatori, integrazione di telecamere industriali con protocolli GenICam

### Software & Tools:

conoscenza di Docker, Oracle Virtual Box, MS Office Suite, AutoCAD, Lightroom

**Operating systems:** Windows, Linux

## About me

Technically trained professional with a background in mechanical engineering and a growing specialization in IT, AI, and IoT. Currently focusing on industrial automation, with hands-on experience in computer vision, deep learning, and real-world system integration (industrial cameras, PLCs, industrial protocols). Strong problem-solving, independent work management, and adaptability in dynamic international environments. Determined, proactive, and innovation-oriented, I am seeking opportunities in a stimulating tech environment to contribute and grow professionally.

## Career history

### Computer Vision Developer – Visiofy srl

june 2025 – september 2025 - Udine

#### Main tasks and responsibilities

- Collaboration on real automated visual inspection projects for manufacturing industry
- Development and training of deep learning models for defect detection and segmentation
- Integration of industrial cameras (IDS, FLIR) and GenICam protocols
- Communication and control through PLCs and embedded systems
- Development of backend tools (Flask, ZMQ, Redis) and frontend web interfaces (Tailwind, JavaScript)
- Management of data pipelines, image saving, logging and orchestration with Docker and Docker Compose
- Team work on a modular and scalable system for industrial AI applications

## Soft skills

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**Enterprising and practical**, I have refined problem-solving in the operational management of accommodation facilities and practical contexts.

**Responsible and reliable**, I have coordinated people and activities independently, developing organizational and decision-making skills.

**Motivated and determined**, I have consistently tackled the transition from the technical sector to IT, focusing on continuous growth.

**Adaptable and autonomous**, I have worked in dynamic and multicultural environments, such as Australia and South America.

**Communicative and punctual**, I have managed relationships with clients and teams while always maintaining a clear and professional approach.

## Certifications

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**Personal Data Protection: GDPR, Privacy & Security – AICA**

04/2025 - ITS Alto Adriatico

**General Training on Workplace Safety**

02/2025 - ITS Alto Adriatico

**Technical Manager for Vehicle Inspections – Centro Revisioni Interauto**

2014 – 2016, 2017 – 2018, 2021 – 2024 - Trieste

Main tasks and responsibilities

- Execution of thorough vehicle inspections, ensuring compliance with standards
- Effective communication with clients and management of technical issues
- Supervision of junior members and organization of operational activities
- Installation of accessories and routine maintenance
- Administrative management: document filing, management of bureaucratic procedures and customer database updates
- Payment management: processing transactions via POS, cash management and daily reconciliation
- Office coordination: appointment scheduling, support in deadline management, archives and interface with certification bodies

**Italian Teacher (volunteer work) - Associazione Arci**

2021 – 2024 (Part-time) - Trieste

Main tasks and responsibilities

- Use of digital platforms for teaching and student management
- Creation of digital teaching materials and independent lesson management
- Use of digital platforms for online teaching, lesson management and student interaction
- Organizational support in association activities, including course programming and enrollment management

## International Experience

**International experiences – Australia and South America (2 years)**

I lived and worked one year in Australia and one in South America, holding managerial roles in agricultural and tourism sectors. I developed key skills such as:

- personnel management and operational coordination
- problem-solving and autonomy in managing accommodation facilities
- intercultural communication in multicultural contexts
- resilience and adaptability in challenging and dynamic environments

*"I authorize the processing of my personal data pursuant to EU Regulation 2016/679 (GDPR) and Legislative Decree 196/2003 for personnel selection purposes."*