

Edoardo Carosio

E- Mail:

Country:

Italy

SKILLS

- **Programming Languages** : Python, C, SQL, Javascript
- **Frameworks/Libraries** : ScikitLearn, OpenCV, Numpy, Pandas, Matplotlib, Seaborn, ROS2, *Pytorch, Keras
- **Tools** : Git, Bash, Markdown, Docker, Linux
- **Languages** : Italian (Native), English

EXPERIENCE

- **Varied work experience** : safety inspections in construction, hospitality roles in Australia, language tutoring, digital advertising for local businesses, IT support, and logistics management.
- **Internship Front End Developer** at Awhy Srl : HTML , CSS , Javascript
Progetto ALI 2.0 – Consorzio Mestieri, Firenze, Italy 12/2021 – 03/2022
- **Internship** in ML, Image processing , IoT devices at Artes 4.0 :
Progetto ALI 2.0 – Consorzio Mestieri (FI), svolto a Pontedera, Italy 05/2022 - 12/2022
- **Software developer/technician** at BioRobotic Institute (SSSA) : Underwater robotics, ML for animals detection, robotic arm control with object tracking.
co.co.co contract with SSSA, Pontedera (Italy), 02/2023 - 09/2023
- **Software developer/technician** at BioRobotic Institute (SSSA) : Underwater robotics and bio sensors development (furan based material).
fixed term contract with INSTM consortium – FURIOUS European project , Pontedera (Italy), 09/2023 – 01/2025
 - Assembled structures and small traps for tracking and analyzing animals, deploying custom (fine tuning) object detection or pose estimation models (YOLO and MobileNet) on SBCs, post-processing analysis with classical ML including data cleaning and feature engineering.
 - Build GUI for internal and external projects (e.g. digital tachometer for a car).
 - Hands-on experience with microcontrollers such as Arduino and ESP32, as well as single-board computers like Raspberry Pi and Nvidia Jetson.
 - Familiar with communication protocols including I2C, SPI, and UART for interfacing with various sensors and peripherals in embedded systems (IMU, Depth camera, ultrasonic sensor, ...). Bluetooth and WiFi with ESP32 board.
 - Hands-on experience in manual assembly and soldering of electronic components and circuit boards.
 - Contributed to the development of an early prototype of a small autonomous robot (soldering, low level communications between devices and microcontrollers , a bit of ROS2, depth camera OAK D lite).

EDUCATION

- Embassy English school, Gold Coast – Australia + IELTS certification
- Diploma Istituto Tecnico Piero Calamandrei - Geometri (Sesto Fiorentino) : voto 65/100
- Computer Science exams taken : Analysis 1, Analysis 2, Linear Algebra, Algorithms and Data Structures, Statistics and Probability, Programming, Database and Information Systems, Computer Architecture, Information Retrieval, Human-Machine Interaction, Programming Methodologies.
- HTML5, CSS3, Javascript Course Udemy
- Data Science course Udemy
- Machine Learning in Python with Scikit-Learn Certificate - Fun MOOC Inria
- OpenCV Computer Vision I : intro to Computer Vision and image processing
- *Deep Learning with Pytorch (OpenCV course – in progress)

Personal Interests: Deep Learning, general-purpose robotics, generative AI landscape, democratization of AI, open-source software, Linux, Privacy and Data protection.