

Dian

Italian • 24 years old

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<https://www.linkedin.com/in/alberto-dian-589322209> • GitHub: [://github.com/albertodian](https://github.com/albertodian)

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Languages: Italian (native), English (C1), Spanish (B1), German (A1)

Summary

Robotics and AI engineer with a strong passion for building intelligent systems. Focused on developing software foundations for complex system architectures, modern DevOps tools, and agile software development.

Education

- MSc in Robotics and Artificial Intelligence - University of Trento Aalto University (September 2023 - August 2025, Trento, Italy Espoo, Finland)
Specialized in Autonomous Systems, Machine Learning, and Computer Vision.
Grade: Graduated with Honors
- in Computer, Communications and Electronic Engineering - University of Trento (September 2020 - July 2023, Trento, Italy)
Focused on Software Engineering, Signal Processing, and Embedded Systems.
Grade: 104/110

Experience

- Robotics Engineer Intern - Huawei Munich Research Center (January 2025 - July 2025, Munich, Germany)
Developed MSc thesis named 'Towards Connected Intelligence: Empowering Robotic Applications with Agentic AI Frameworks'
 - SoTA Analysis regarding Visual Language Action models in robotics (Octo, OpenVLA, EdgeVLA, ECoT VLA, SmolVLA, Pi0) and 6G-Enabled Sensing.
 - Designed a Teleoperation Framework from scratch to control the Mercury X1 robot using the Meta Quest 3. (ROS, ROS, Unity, XR)
 - Collected 2000 robot trajectories, designed a dataset from scratch to finetune OpenVLA-OFT model (RLDS, Tensorflow).
 - Enhancing VLAs capabilities using Agentic AI Frameworks (AutoGen, LangChain, LangGraph). Studying AgenticVLAs performances in human populated environments.

Skills: Python, ROS, ROS, Unity, MetaSDK, VLA, OpenVLA, Lerobot, LLM, AutoGen, Langchain, C++, CI/CD Environments, DevOps

Reference: Dr. Massimiliano Maule - [://drive.google.com/file/d/1MkB-94DfJ-vR13I8-p47zmRMoSBDE3t/view?usp=sharing](https://drive.google.com/file/d/1MkB-94DfJ-vR13I8-p47zmRMoSBDE3t/view?usp=sharing)Letter

- Engineer Intern - Sarmap SA (April 2023 - June 2023, Caslano, Switzerland)
Development BSc thesis named 'Ternary classification of change in high-resolution SAR images using a convolutional neural network'

- Reviewed SAR change detection literature and CNN methods.
- Gathered high-resolution SAR images from varied environments.
- Preprocessed SAR data (Normalization, Co-registration).
- Built a custom CNN for change detection from scratch.
- Trained model with optimized hyperparameters and data augmentation.

Skills: Python, TensorFlow, Keras, OpenCV, Git, Image Processing, SAR Images

Reference: Dr. Paolo Pasquali - [://drive.google.com/file/d/17uBpnvz3K-voV2fdSyMNbZHrfXChWSKu/v](https://drive.google.com/file/d/17uBpnvz3K-voV2fdSyMNbZHrfXChWSKu/v)

- Mentor - Italy Expo 2020 (October 2020 - June 2022, Dubai, United Arab Emirates)
Peer Mentor for cultural and educational activities at the Italy Pavilion, Expo 2020 Dubai (online).

- Managed 30+ participants during an international hackathon.
- Mentored students in STEM subjects and project development.
- Organized workshops and networking events with industry professionals.

Skills: Mentoring, Leadership, Business Development

Projects

- CV Generator (2025) – Developer and AI Engineer
Developed a system to modify your CV based on a job description using LLMs to maximise the match between your profile and the job requirements. It renders the result into a clean, ATS-friendly PDF using LaTeX templates.

- Ollama
- Python
- LaTeX
- Git
- Playwright
- RestAPI
- UI/UX Design
- Streamlit
- Web Scraping

[://github.com/albertodian/automatic-cv](https://github.com/albertodian/automatic-cv)Project Link

- (2024) – Developer
Groupee is a smart app that creates balanced student teams by matching personalities and skills to boost collaboration and improve learning outcomes.

- Flutter
- Dart
- Firebase
- Figma
- UI/UX Design
- Angular
- Node.js

[://groupee-fi.web.app/landing](https://groupee-fi.web.app/landing)Project Link

- AI Model Enhancement (2024) – AI Engineer
Test Time Adaptation using MEMO. Focused on enhancing augmentations' effectivity, involving the use of segmentations (Segment Anything), GradCam and DINOv2.

- Python
- PyTorch
- ML
- Git
- Data Augmentation

[://drive.google.com/file/d/1TfRMWTcMW5Lrw6ZrH7d0Fd4M4U4syJaC/view](https://drive.google.com/file/d/1TfRMWTcMW5Lrw6ZrH7d0Fd4M4U4syJaC/view)Project Link

Skills

- | | |
|----------------------|------------------------|
| • Python | • Ollama |
| • C++ | • LangChain |
| • CI/CD Environments | • AutoGen |
| • DevOps | • Git |
| • Qt/QML | • LaTeX |
| • ROS | • Figma |
| • ROS | • Adobe Creative Suite |
| • Unity | • UI/UX Design |
| • MetaSDK | |