ERIK MISCHIATTI

MECHATRONIC ENGINEER/ROBOTICS & ELECTRONICS

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LINKEDIN
PORTFOLIO

PERSONAL

VERONA, ITALY, 26/03/1998

Hi! I'm **Erik Mischiatti**, a Mechatronics Engineer with a passion for robotics, automation, and innovation. My experience spans across dynamic international projects and research in autonomous systems and smart technologies. When I'm not coding or experimenting with robots, you'll find me running, exploring new places with my camera, or refining my cooking skills. I thrive in challenging environments and enjoy connecting with inspiring people.

EXPERIENCES

Test Engineer – EAGLE.ONE Drone Hunting System
Czech Technical University in Prague (CTU),
Faculty of Electrical Engineering – Dept. of Cybernetics
Oct 2025 – Present | Prague, Czech Republic
Working on **EAGLE.ONE**, an autonomous counter-UAV interceptor platform, with a focus on system-level testing, integration, and validation of mission-critical UAV autonomy.
Key responsibilities and contributions:
- Design and deployment of an RTK GNSS base-station for high-accuracy UAV positioning (hardware selection, enclosure design, field deployment)
- Development and validation of mission orchestration via Behavior Trees (ROS / BehaviorTree.CPP)
- Integration and testing of ROS mission-level services for autonomous, manual, and hybrid control modes.
- Execution of simulation-based test campaigns (MRS UAV System), validating safety-critical behaviors and failure modes.

Master Thesis Researcher | Technical University of Vienna (TU Wien)
April 2024 – October 2024 | Vienna, Austria
Developed a robotic framework for autonomous cable manipulation using kinesthetic demonstration, invariant trajectory learning, and behavior trees. The system combines vision-based object reconstruction and invariant representation to generalize assembly tasks with deformable objects.

StartUp Lab – Hachi Team | University of Trento
March 2023 – June 2023 | Trento, Italy
Participated in CLab Trento, the interdepartmental innovation program in collaboration with Hub Innovazione Trentino (HIT).
Worked on the Hachi project, an AR-based educational platform, developing the system's interactive and technical aspects.

EDUCATION

M.Sc. MECHATRONICS ENGINEERING
ELECTRONICS and ROBOTICS
University of Trento | 2022-2024 |
Thesis: Leveraging Acquired Knowledge and Invariant Representations for Cable Manipulation

B.Sc. MECHATRONICS ENGINEERING
INFORMATION ENGINEERING L-8
University of Padova | 2018-2021
Thesis: Detection of Human Arm Muscle Activity Using EMG Sensors

SKILLS

Python	ROS	Good team player
C/C++	Gazebo	Flexibility
Matlab	Computer vision (OpenCV)	Communication skills
Docker	Embedded systems	Adaptability
Git	Autonomous systems	Project Management
Linux	PCB design	Interdisciplinary
Windows	SolidWorks	International Teamwork
LaTeX	Fusion 360	(R&D)
Mathematica	3d printing	Innovation Mindset
VSC	Behavior Tree	

AWARDS & CERTIFICATIONS

Modular Drone - UWB communication
Institution: Trento University
IEEE Xplore: 2024 IEEE International Conference on Automation Science and Engineering
2023-2024

IEEE 20th International Conference on Automation Science and Engineering
2024

DigiEduHack 2021 – Global Award Winner (Hachi Team)

LANGUAGES

Italian - native	**Swedish** - A1
English - B2/C1	**German** - A1