

ANDREA PITTO

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EDUCATION

Master's Degree in Robotics Engineering March 2022

Earned at the University of Genoa, Italy — 107/110

Thesis: *Safe Learning for Robotics: Abstraction Techniques for Efficient Verification*

Bachelor's Degree in Electronic Engineering and Information Technology March 2019

Earned at the University of Genoa, Italy — 95/110

Thesis: *Classification of Soil Coverage via Remote Sensed Optical and Radar Multi-sensor Images*

SKILLS

Languages	Python, C, MATLAB, \LaTeX , C++, C#, Java, HTML, Assembly, JavaScript, Bash/PowerShell scripting, OWL, SQL, UML, Visual Basic for Applications
Frameworks	ROS, Qt, PyTorch, Spring Boot
Tools	MATLAB, Simulink, Git, GitKraken, GitHub, GitLab, Gazebo, Protégé, Choregraphe, Arduino, PTC Creo, Doxygen, RegEx, Postman, PostgreSQL
Standards/Protocols	POSIX, HTTP, IPv4, IPv6, TCP/IP, UDP
Soft Skills	Problem solving, communication, teamwork, time management, leadership, accountability

ACADEMIC PROJECTS

- ◊ Mentore — *PyQt5, Protégé, OWL 2* GitHub
Implementation of a graphical user interface for the Mentore robot's screen. The GUI collects user inputs and choices; the data is then sent through an API to the ontology.
- ◊ Advanced and Robot Programming — *C, POSIX, Unix* GitHub
POSIX-compliant C solution featuring the creation of several independent processes, that are leveraged to exchange a data token inside a local network.
- ◊ Software Architecture — *Python, Bash, NumPy, Matplotlib* GitHub
Design and implementation of a software component for the teleoperation of the arms of the Baxter robot simulation in Coppelia.
- ◊ Experimental Robotics Laboratory — *Python, ROS, Gazebo, OpenCV, NumPy* GitHub
Collection of exercises and assignments revolving around architecture design and robot simulation.

PUBLICATIONS

- [1] Dario Guidotti, Armando Tacchella, Stefano Demarchi, and Andrea Pitto. Formal verification of neural networks: a case study about adaptive cruise control. In *ECMS*, volume 36, pages 310–316, June 2022.

PERSONAL PROJECTS

- ◇ OS Virtualization and Remote access — *VirtualBox, Hyper-V, WSL, Docker, RDP, VNC, WoL*
- ◇ Linux desktop experience — *Ubuntu, Arch Linux, Raspberry Pi OS, Knoppix, Linux Mint*
- ◇ SSH connection, file management, key authentication — *ssh, ssh-keygen, scp, sftp, screen, tmux*
- ◇ Microsoft Excel Macro development with Visual Basic for Applications
- ◇ Home network management via Raspberry — *DNS filtering, VPN*
- ◇ JetBrains and Microsoft development environments/tools, Vim text editor
- ◇ Front-end web development basics — *Sass, TypeScript, HTML, Angular, Node.js, npm*
- ◇ Back-end web development basics — *Java, Spring Framework & Spring Boot, Maven, PostgreSQL/H2 with Hibernate, REST API*

LANGUAGES

- ◇ Italian — Native
- ◇ English — Proficient (C1/C2)
- ◇ Spanish — Independent (B1/B2)