



Roberto Chello

PLC & AUTOMATION ENGINEER

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Experience

Elettra s.r.l.

PLC & AUTOMATION ENGINEER

Casagiove (CE), Italy

May 2025 – Current

End-to-end PLC engineering for industrial systems, covering software development, network/HMI integration, and commissioning, with emphasis on reliability, rapid diagnostics, and long-term maintainability.

- Designed, programmed, and commissioned PLC applications on **Siemens S7-1200/1500** using **TIA Portal** (LAD/FBD/SCL), with reusable blocks and consistent naming for maintainability.
- Supported **system testing and commissioning**, including I/O checks, safety validations, and servo drive setup, ensuring issue resolution until closure.
- Developed **WinCC** HMI pages with alarms, trends, and diagnostics to speed up troubleshooting and reduce intervention times.
- Integrated PLCs into plant networks via **PROFINET**: IP addressing, device naming, time synchronisation, and data exchange with SCADA/MES through **OPC UA/Modbus TCP**.
- Performed corrective and minor enhancement maintenance with versioned backups and structured change notes to ensure operational continuity.
- Worked with electrical and mechanical teams and suppliers to clarify requirements and close open points during execution.

Skills

Productivity Microsoft Office · Google Workspace

Development Tools Visual Studio Code · Eclipse · IntelliJ IDEA

Operating Systems & Virtualization Windows 10/11 · Linux (Ubuntu/Mint) · macOS · VMware Workstation · VirtualBox

Version Control Git · GitHub

Programming C · C++ · Java · Python

Scripting & Automation Bash/Zsh · PowerShell · VBA · Excel Macros

Industrial Automation & Control PLC Programming (LAD · AWL · SCL) · TIA Portal · STEP 7 · MATLAB · Simulink

Networking & Industrial Protocols TCP/IP · VLANs · VPN (OpenVPN) · PROFINET · OPC UA · Modbus TCP

Robotics & Simulation ROS · ROS 2 · Dynamixel Protocol 2.0 · RoboDK · RViz · MoveIt!

Documentation & Markup L^AT_EX · TikZ · Markdown · Doxygen

Languages Italian (Native) · English (B2)

Time management

Effective planning of tasks, deadlines, and priorities

Teamwork

Collaboration with multidisciplinary teams and stakeholders

Prioritization

Focus on high-impact tasks and workload management

Problem-solving

Analytical and structured approach to problem resolution

Ownership

End-to-end responsibility for tasks and deliverables

Communication

Clear, concise communication tailored to the technical level

Education

MSc in Computer Engineering – Robotics & Automation | LM-32

UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Aversa (CE), Italy

Sep. 2020 – Nov. 2024

THESIS TITLE: CONTROL STRATEGY FOR GRASP FORCE REGULATION AND SLIPPING AVOIDANCE FOR AN ANTHROPOMORPHIC ROBOTIC HAND

DESCRIPTION: Development of an advanced control system for the RH8D robotic hand, with Dynamixel-based drivers and ROS 2 integration, to improve dexterity and grasping. Tested on various objects and in industrial automation and collaborative robotics scenarios.

GRADE: 106/110

Internship in Computer Engineering – Robotics & Automation

UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Aversa (CE), Italy

Mar. 2024 – Jun. 2024

TITLE: SIMULATION AND CONTROL OF THE SEED ROBOTICS ANTHROPOMORPHIC HAND AND RELATED TACTILE SENSORS IN ROS 2

DESCRIPTION: Simulation and control of the RH8D robotic hand and FTS3 sensors in ROS 2, using the Dynamixel library. Software and documentation are available in the ROS 2 repositories of the Robotics Lab at the University of Campania "Luigi Vanvitelli".

BSc in Electronic and Computer Engineering | L-8

UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Aversa (CE), Italy

Sep. 2011 – Apr. 2020

THESIS TITLE: DESIGN AND IMPLEMENTATION OF A WEB APPLICATION FOR THE COMMON CRITERIA CERTIFICATION PROCESS (ISO/IEC 15408 STANDARD)

DESCRIPTION: Analysis of the ISO/IEC 15408 security standard, with a focus on Security Assurance Requirements (SAR) and Evaluation Assurance Levels (EAL). Development of a web application to catalog certifiable components according to the standard, emphasizing the importance of EAL in determining security levels.

GRADE: 82/110

In accordance with Regulation (EU) 2016/679 (GDPR) and Italian Legislative Decree No. 196/2003, as amended, I authorize the processing of my personal data for recruitment/selection purposes and for the management of the employment relationship.

