Roberto **Chello**

PLC & AUTOMATION ENGINEER

05-10-1991 - S. MARIA CAPUA VETERE (CE)

Vicolo Ruffino 13, S. Nicola La Strada (CE) - Italy

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Work Experience

PLC & Automation Engineer
ELETTRA SRL

May 2025 - Current
Casagiove (CE), Italy

Development of PLC logic and embedded control systems for industrial automation.

- **Engineering and commissioning** - Design, programming, and commissioning of Siemens S7-1200/1500 PLCs in TIA Portal with modular, scalable architectures for high availability production lines. .
- **Operator interface** – Configuration of operator interfaces on HMI Siemens panels, focused on rapid diagnostics and reduced intervention times.
- **Lifecycle management** – Corrective and evolutionary maintenance of PLC software on-site, ensuring operational continuity and significant downtime reduction.
- **Network integration** – Integration of PLCs into standard industrial networks (e.g., PROFINET), ensuring interoperability between field devices and supervisory systems.

Skills

Productivity	Microsoft Office · Google Workspace
Development Tools	Visual Studio Code · Eclipse · IntelliJ IDEA
Version Control	Git · GitHub
Programming	C · C++ · Java · Python
Back-end Development	Spring Boot · Hibernate ORM
Front-end Development	HTML · CSS · JavaScript
Software Development	Maven · MVC
Industrial Automation & Control	PLC Programming (LAD, AWL) · TIA Portal · STEP7 · MATLAB · Simulink · LabVIEW
Robotics & Simulation	ROS · ROS 2 · Dynamixel Protocol 2.0 · RoboDK · RViz · MoveIt!
Agile Methodologies	Scrum (Sprint, Daily Stand-up) · Kanban (Process Board) · Trello
Documentation & Markup	LaTeX · TikZ · Markdown · Doxygen
Languages	Italian (Native) · English (B2)

Prioritising Systematic management of high-impact tasks in automation projects to maximise operational effectiveness.

Meeting deadlines Coordinating activities to ensure timely delivery according to internal schedules.

Problem solving Quick diagnosis and resolution of faults in PLCs and field networks to reduce production downtime.

Empathy Proactive support to technical and operations teams during commissioning and troubleshooting phases.

Teamwork Enabling knowledge exchange across Engineering, IT and Operations to achieve common goals.

Active listening Gathering and understanding stakeholder and user needs to improve functional specifications.

Education

Master's Degree, Computer Engineering - Robotics and Automation
UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Sep. 2020 - Nov. 2024
Aversa (CE), Italy

THESIS TITLE: CONTROL STRATEGIES 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.

VOTE: 106

Internship, Computer Engineering - Robotics and Automation
UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Mar. 2024 - Jun. 2024
Aversa (CE), Italy

TITLE: SIMULATION AND CONTROL OF THE SEED ROBOTICS RH8D 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".

Bachelor's Degree, Electronic and Computer Engineering
UNIVERSITY OF CAMPANIA "LUIGI VANVITELLI"

Sep. 2011 - Apr. 2020
Aversa (CE), Italy

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.

VOTE: 82