

LUCIANO ARGEO MALAGOLA ANGOLA

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GitHub: <https://github.com/LucianoMalagola/Project-Portfolio>

PROFILE

Bachelor's in Electronics Engineering with a strong foundation in electronic systems, programming, automation, and embedded technologies. Currently pursuing a Credential Degree in Artificial Intelligence and Business Data Analytics and an IBM Data Analysis Professional Certification, combining engineering expertise with data-driven solutions. Passionate about technology, innovation, AI, machine learning and leveraging analytics to drive smarter decision-making.

EXPERIENCE

Main Street Renewal

Ultrapark II, Heredia

Supply Chain Construction Specialist - Intern

Jun 2025 - Present

- Manage contract edits, ensuring compliance and effective communication across teams and partners.
- Develop dashboards and visualizations to monitor metrics and support strategic decisions.
- Implement best practices in data analysis to drive operational improvements.

Swissol

San Rafael, Alajuela

Solar Energy Systems Engineer - Intern

Dec 2024 - Mar 2025

- Installed and maintained photovoltaic systems, including panels, inverters, and batteries.
- Performed diagnostics and firmware updates for inverters and batteries (Sol-Ark, Solís, Pytes).
- Contributed to system design and layout planning using AutoCAD and PV Sol.
- Supported technical documentation and ensured compliance with safety and regulatory standards.

EDUCATION

Universidad de Ciencia y Tecnología (ULACIT)

May 2025 - Present

Credential Degree in Artificial Intelligence and Business Data Analytics

Universidad Latina de Costa Rica (ULATINA)

Jan 2020 - Aug 2025

Bachelor's in Electronics Engineering

PROJECTS

Financial Data Modeling and Forecasting

Independent Research Project

- Developed a Python-based Monte Carlo simulation tool to analyze and forecast stock price trends.
- Integrated historical data retrieval via yfinance, applied statistical modeling, streamlined data handling with Pandas and NumPy, and created dynamic visualizations using Matplotlib.
- Produced insights for risk analysis and prediction scenarios across a 7-day time horizon.
- Enhanced understanding of financial modeling, probability distributions, and data-driven decision-making.

Automated Drip Irrigation System

Multidisciplinary Project for the ULATINA's School of Gastronomy

- Helped develop a Raspberry Pi multi-station irrigation system to enhance greenhouse water efficiency.
- Logic programmed in Python and C++, user-friendly web interface programmed using JavaScript, HTML and CSS
- Sensor integration and data-based control logic.
- Strengthened skills in project management, teamwork, and sustainable design.

Operations Performance Dashboard – MainStreet Renewal

Interactive and User-Friendly Tool for Construction Supply Chain & Field Services Teams

- Developed interactive dashboards in Excel and Power BI to track and visualize key metrics.
- Consolidated data from multiple sources to provide insights into job status, team performance and KPIs.
- Aimed to improve transparency, efficiency, and data-driven decision-making.
- The first release was successfully adopted, with ongoing improvements planned to expand usability and analytical depth.

LANGUAGES

Spanish (Native)

English (Proficient - C2)
(IB Bilingual Diploma)

Italian (Intermediate - B2)

SKILLS

- **Programming:** Python, SQL and C++
- **Data Tools:** Excel, Power BI, Power Query, IBM Cognos Analytics, Pandas, Matplotlib, Numpy, Jupyter Notebooks
- **Engineering Software:** Visual Studio Code, AutoCAD, NI LabVIEW, NI Multisim
- **Productivity:** Microsoft Office, Microsoft Power Platform, Google Workspace, Salesforce
- **Core Knowledge:** Data analysis, probability and statistics, computer architecture, IT systems, microcontrollers, system automation, and telecommunications principles
- **Personal traits:** Adaptability, team member, decision-making, willingness to learn, time management skills, aptitude, and dedication to work