

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, IoT, 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 key 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.
- Contributed to system design and layout planning.
- Supported technical documentation and ensured compliance with safety and regulatory standards.

EDUCATION

Universidad Latinoamericana 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

Operations Performance Dashboard – MainStreet Renewal

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

- Created interactive dashboards in Power BI and Excel to monitor KPIs, job status, and team performance.
- Consolidated multi-source data to enhance transparency and operational efficiency.
- Supported data-driven decisions across Supply Chain & Field Services through actionable visual insights.

Financial Data Modeling and Forecasting

Independent Research Project

- Built a Python-based Monte Carlo simulation to forecast 7-day stock price trends using yfinance, Pandas, and NumPy.
- Designed visual analytics in Matplotlib to interpret confidence intervals and price volatility scenarios.
- Delivered data-driven risk insights to strengthen decision-making and understanding of financial modeling.

Automated Drip Irrigation System

Multidisciplinary Project for the ULATINA's School of Gastronomy

- Developed a Raspberry Pi irrigation system to improve greenhouse water efficiency and resource management.
- Programmed control logic in Python/C++ with a web interface built in JavaScript, HTML, and CSS.
- Integrated real-time sensor data for adaptive control and strengthened project management and sustainable design skills.

LANGUAGES

Spanish (Native)

English (Proficient - C2)
(IB Bilingual Diploma)

Italian (Intermediate - B2)

SKILLS

- **Programming:**
 - **Python** (Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup, Scikit-learn, TensorFlow)
 - **SQL** (MySQL, PostgreSQL, SQLite, IBM Db2)
 - **R** (statistical modeling and visualization using ggplot2, readr, tidyverse, and RMarkdown)
 - **C++** (embedded systems and hardware control programming for Linux-based microcontrollers)
- **Data Tools:** Tableau, Microsoft Power BI, Microsoft Excel, Microsoft Power Query, IBM Cognos Analytics
- **Software:** Visual Studio Code, Jupyter Notebooks, RStudio, NI LabVIEW
- **Productivity:** Microsoft Office, Microsoft Power Platform, Google Workspace, Salesforce
- **Core Knowledge:** Data analysis, probability and statistics, computer architecture, IT systems, microcontrollers, system automation, machine learning and telecommunications principles
- **Personal traits:** Adaptability, team member, decision-making, eagerness to learn, time management, accountability, and strong work ethic

CERTIFICATIONS

IBM Skills Network	• Professional Certificates:	
	◦ IBM Data Analyst	Expected Completion - Dec 2025
	• Courses:	
	◦ Data Visualization and Dashboards with Excel and Cognos	Completed - May 2025
	◦ Python for Data Science, AI & Development	Completed - Jun 2025
	◦ Databases and SQL for Data Science with Python	Completed - Sep 2025
	◦ Data Analysis with Python	Expected Completion - Oct 2025
	• Specializations:	
	◦ Data Analysis and Visualization Foundations	Completed - May 2025
University of Cambridge	• Courses:	
	◦ Foundations of Finance	Expected Completion - Nov 2025
RICE University	• Bootcamps:	
	◦ Clinical Needs Finding Bootcamp 2024	Completed - May 2024
	◦ Medical Innovation Bootcamp 2024	Completed - Jun 2024