

# 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

## 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

<b>IBM Skills Network</b>	<ul style="list-style-type: none"><li>• <b>Professional Certificates:</b><ul style="list-style-type: none"><li>◦ IBM Data Analyst</li></ul></li><li>• <b>Courses:</b><ul style="list-style-type: none"><li>◦ Data Visualization and Dashboards with Excel and Cognos</li><li>◦ Python for Data Science, AI &amp; Development</li><li>◦ Databases and SQL for Data Science with Python</li><li>◦ Data Analysis with Python</li></ul></li><li>• <b>Specializations:</b><ul style="list-style-type: none"><li>◦ Data Analysis and Visualization Foundations</li></ul></li></ul>	Expected Completion - Dec 2025
		Completed - May 2025
		Completed - Jun 2025
		Completed - Sep 2025
		Expected Completion - Oct 2025

**University of Cambridge** . Courses:  
◦ Foundations of Finance      Expected Completion - Nov 2025

- **Bootcamps:**
  - Clinical Needs Finding Bootcamp 2024 Completed - May 2024
  - Medical Innovation Bootcamp 2024 Completed - Jun 2024