

# ROMAN MICHELE

## DATA ENGINEER

### FREELANCE - REMOTE WORKING



"I help companies empower informed decision-making and optimize their data-driven processes."

## CONTACT DETAILS:

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October 2024 - On going

As a **Freelance Data Engineer**, I specialize in transforming complex data challenges into strategic opportunities. Leveraging my expertise in **SQL** and cloud-based platforms like **Snowflake**, I structure and organize data to optimize business processes. I use **Python** and **Matlab** for advanced data processing and analysis, providing actionable insights through intuitive visualizations with **PowerBI**. In addition, I develop **innovative AI solutions using LangChain** to automate workflows, enhance **decision-making**, and streamline operations. My goal is to drive business growth by delivering high-impact data-driven solutions and AI-powered applications that simplify complex processes and provide tangible value to organizations.

I excel in **problem solving**, applying a **creative and analytical mindset** to address complex business challenges. Additionally, my strong **team collaboration** skills have been instrumental in driving successful projects from concept to execution.

#### What can I do for you?

- 1. ETL and Data Integration:** I extract, transform, and load data into databases, ensuring smooth and organized management.
- 2. Data Management Platforms:** I configure databases, data warehouses, and cloud platforms, optimizing permissions, roles, and usage for integrated management.
- 3. Optimization and Predictive Models:** I analyze and automate complex calculations, developing models that **extract strategic value from your data**.
- 4. Process Automation:** I develop **custom applications** for data entry, automation, and automatic updates of data and **visualizations**.
- 5. Advanced AI Solutions:** I implement applications based on **LLM** and **RAG** to enhance efficiency and optimize **business processes**.

If you're interested in **innovative solutions and data-driven analysis**, feel free to reach out to **organise a call to discuss** if and how I could **help you to solve your problem**. In case, as prove of my capabilities I'd be happy to present my portfolio.

## OTHER WORKING EXPERIENCE

### DATA ANALYST

#### PERSONAL PROJECT - NOT EMPLOYED

March 2024 - August 2024 (~ 6 months)

Personal Project: Development of backtesting software for trading strategy management

- **Software Development:** Developed a personal software tool for analyzing trading strategies and performing backtesting, driven by my passion for personal finance management.
- **Data-Driven Decision Making:** Utilized **data analysis** to ensure that all trading decisions are informed and data-driven.
- **Tools & Methodology:** The software was created using **Matlab**, with **structured and organized code and processes**. Used **Power BI** for visualization and presentation.

### ADVANCED SYSTEM ENGINEER - POWER ELECTRONICS

#### ELDOR CORPORATION SPA (TURIN, ITALY)

March 2017 - February 2024 (7 years)

Key Competencies and Experience:

##### 1. Innovation & System Integration

- **Project Management & Innovation:** Successfully led cutting-edge projects from concept to prototype, with a **strong focus on power electronics design toolchains**. **Integrated software** with electric machines to enhance system performance, innovation development within the EV sector.
- **System Integration Expertise:** Deep understanding of **EV components**, including **electric machines, batteries and transmissions**, with hands-on experience in requirements management (including ISO 26262) to ensure seamless product integration and compliance with industry standards.

\* DATA-DRIVEN DECISION MAKING MINDSET

\* 7 YEARS IN AUTOMOTIVE INNOVATION FIELD

\* STRONG VALUE BASE, PASSION AND RESULT ORIENTED



## 2. Power Electronics in Automotive

- **EV Components & Design:** Specialized in designing and developing key EV components such as **traction inverters** and **power semiconductor** selection (SiC MOSFETs, IGBT, GaN). Proficient in power electronics architecture (System Composer, Matlab), schematic and layout design (Altium), and circuit simulation (SIMetrix).
- **Testing & Validation:** Led the creation of comprehensive **test plans**, establishing test environments, and conducting detailed **testing and validation** of power electronics systems, ensuring reliability and performance.

## 3. Business Development & Communication

- **Strategic Leadership:** Directed e-axle product teams, facilitating **effective communication** on technical issues with both internal teams and external stakeholders. **Built and nurtured relationships** with key suppliers, universities, and strategic partners, fostering collaboration and innovation in power electronics.
- **Patent Co-Inventor:** Co-inventor of multiple patents, contributing to the **advancement of EV technologies** and protecting **intellectual property**.

## 4. Market & Data Analysis

- **Data-Driven Decision Making:** Expert in leveraging market analysis and data insights to guide strategic decisions in EV technologies and product development. Skilled in market and technical analysis using **Matlab** to identify market opportunities and trends.
- **EV Market Insight:** Extensive knowledge of EV industry dynamics, including key technologies, players, and emerging trends, ensuring **informed decision-making and competitive positioning**.

# EDUCATION PATH

## MASTER IN ELECTRICAL ENGINEERING 109/110

UNIVERSITY OF PADOVA

October 2014 - October 2016 (2 years)

ERASMUS IN MUNICH (TUM) FOR MASTER THESIS: Development of a test bench for Cascaded H-Bridge Converter

April 2016 - October 2016 (6 months)

## BACHELOR IN ENERGY ENGINEERING 101/110

UNIVERSITY OF PADOVA

October 2011 - September 2014 (3 years)

## ELECTROTECHNICAL DIPLOMA 90/100

'ITIS VITO VOLTERRA' SAN DONA' DI PIAVE (VE)

September 2006 - July 2011 (5 years)

# LANGUAGES

Italian - Native language  
English - Fluent  
Spanish - Colloquial  
Indonesian - Few basis

# OTHER INTERESTS

- Finance
- Travelling
- Sport and outdoor activities
- Dancing (latin)

# OTHER INFORMATION

- Driving licence: B

\* CREATIVE AND PROACTIVE MIND

\* FOSTERING PRODUCTIVE AND POSITIVE WORKING ENVIRONMENTS

\* PUT IN PRACTISE TO GROWTH SKILLS

