

Hugo de Oliveira Mariano

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Right to Work: EU Citizen

PROFESSIONAL SUMMARY

Bilingual electrical engineer (Portuguese and English) with comprehensive experience in engineering design, BIM technology, and automation systems. Proven track record in electrical project design, solar energy systems, and multidisciplinary coordination using advanced CAD and BIM software. Strong background in technical documentation, cost estimation, and project management with expertise in AutoCAD, Plant3D Autodesk, and automation technologies. Dedicated professional with excellent problem-solving abilities and experience in delivering complex engineering projects from concept to completion.

EDUCATION

Bachelor Degree in Electrical Engineering (NFQ Level 7)

UFTM - Brazil | 2016 – 2020

Bachelor of Digital Marketing (NFQ Level 7)

Estacio - Brazil | 2022 – 2023

Further Education & Certificates

- Cambridge Certificate of Advanced English (C1) | Full professional proficiency
 - Data Warehouse & API Development
 - Python Data Analysis & Automation
 - Systems Analysis and Development
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PROFESSIONAL EXPERIENCE

Barista - Dublin and Galway, Ireland | November 2023 - Present

- Managing cash flow and inventory control systems
- Overseeing pricing strategies and supply chain management
- Customer service excellence and team coordination
- Managing staff scheduling and operational efficiency

Electrical Engineer (Self-employed) - São Paulo, Brazil | January 2019 - September 2021

Engineering Services for Alcohol and Corn Processing Plant (2019)

- Provided specialized electrical engineering services for industrial alcohol and corn processing facility

- Utilized Plant3D Autodesk for comprehensive 3D modeling and design coordination
- Implemented AutoCAD for detailed 2D electrical drawings and technical documentation
- Developed automation solutions using Eplus plugin for enhanced system efficiency
- Managed project lifecycle from initial design through implementation until pandemic onset
- Coordinated multidisciplinary engineering requirements for industrial processing systems

Solar Panel Automation Platform Development (2020)

- Developed comprehensive automation platform for solar panel contract management
- Implemented API integrations and web scraping technologies for real-time supplier pricing
- Created automated calculation systems based on photographic analysis, geographical location, solar panel angulation, and azimuthal direction optimization
- Utilized Python programming for data processing and automated report generation
- Delivered complete solution enabling automated cost estimation and technical specifications
- Project duration: 12 months with full platform deployment

BIM Engineering Projects and Government Tenders (2021)

- Worked in specialized engineering consultancy focusing on government tender projects
- Implemented BIM (Building Information Modeling) technology for comprehensive project coordination
- Developed automated material lists using pre-approved government specifications
- Created automated pricing calculation systems for accurate cost estimation
- Coordinated multidisciplinary modeling for electrical, plumbing, HVAC, and architectural systems
- Performed technical analysis and proposal development for government infrastructure projects
- Managed KPI tracking for financial management and vendor coordination

Technical Support and Development Projects | 2019-2021

- Provided technical assistance via phone and ticketing systems for complex engineering software
- Created comprehensive technical documentation and knowledge base articles
- Conducted training sessions on new systems and engineering software implementation
- Developed Python automation routines for report generation and data processing
- Implemented quality control processes ensuring high customer satisfaction and project delivery

TECHNICAL SKILLS

Engineering Software & BIM

- **CAD/BIM Software:** AutoCAD (2D/3D), Plant3D Autodesk, BIM software for multidisciplinary modeling
- **Automation Tools:** Eplus plugin, Python automation, API development
- **Analysis Tools:** Microsoft Excel (advanced, including PivotTables and Macros), Power BI
- **Project Management:** Technical documentation, cost estimation, proposal development

Programming & Automation

- **Programming Languages:** Python (automation, data processing, API integration)
- **Data Analysis:** Advanced Excel, Google Sheets, Power BI, Looker
- **Automation Platforms:** Microsoft Power Automate, custom API solutions
- **Web Technologies:** Web scraping, API integration, automated data acquisition

Engineering Specializations

- **Electrical Systems:** Low and medium voltage design and routing
- **Solar Energy Systems:** Panel design, pricing optimization, technical analysis
- **Industrial Automation:** Process control systems, automation implementation
- **BIM Coordination:** Multidisciplinary modeling for MEP and architectural coordination
- **Technical Documentation:** Engineering specifications, technical reports, compliance documentation

Project & Business Skills

- **Cost Estimation:** Detailed analysis for services, products, and materials
 - **Proposal Development:** Technical bid preparation and project analysis
 - **KPI Management:** Performance tracking for financial and operational metrics
 - **Quality Control:** Technical review processes and compliance verification
 - **Vendor Management:** Supplier coordination and performance evaluation
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LANGUAGE SKILLS

- **Portuguese:** Native
 - **English:** Advanced (C1 Cambridge Certificate)
 - **Italian:** Intermediate
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KEY COMPETENCIES

Technical Expertise

- Electrical project design and implementation
- BIM technology and multidisciplinary coordination
- Solar energy system design and optimization
- Industrial automation and process control
- Technical documentation and compliance management
- Cost estimation and financial analysis

Professional Skills

- Strong analytical and problem-solving abilities
- Excellent verbal and written communication in multiple languages
- Proactive approach to technical challenges and innovation
- Training and mentoring capabilities for technical systems
- Adaptability across engineering disciplines and international settings
- Time management and project delivery under tight deadlines

Industry Knowledge

- Government tender processes and compliance requirements
- Industrial processing systems (alcohol and corn production)
- Renewable energy sector (solar panel systems)

- Building codes and engineering standards
- Quality assurance and technical review processes

INTERESTS

Travelling, smart home automation systems, technology innovation, cooking, continuous learning, and engineering design

References Available Upon Request