



João Miguel Guimarães Fidalgo Roque

Master in Electrical and Computers Engineering

I am a senior software engineer at Critical Manufacturing. I love to learn new technologies and to understand and design complex systems.

My main focuses are in project implementation, designing and implementing solutions for specific customer requirements and in DevOps, rethinking the way we work.

| PROFESSIONAL EXPERIENCE|

>> @Critical Manufacturing



Technology Stack: C#, .NET, Node, Angular, Typescript, SQL Server

Senior Software Engineer @ DevOps @Engineering Team

2021 – to this moment

Goal: Lead implementation projects for an MES IoT solution. Understand customer requirements, create backlog and implementing complex solutions.

Highlights:

- Lead Implementation design and architecture
- Lead team of software engineers
- Define template and generic approaches for projects
- Discuss with the client the solution design
- Define deployment strategies
- Created support for MSSQL, IPC-CFX, OIB and serial driver in the IoT module
- Code reviewer and guarantor of code standards

Software Engineer @ DevOps @Engineering Team

2019 – 2020

Goal: Creating a consistent development structure for the project implementation teams and continuously improve the way we work. Work on projects for different industries, implementing an MES solution

Highlights:

- Integrated Connect IoT application customization in the Pipeline process
- Contributor in architecture design for implementing devops on project implementation
- Contributor and architect on the CLI project (<https://github.com/criticalmanufacturing/cli>)
- Implemented and deployed MES solutions to different industries

Junior Software Engineer

2018 – 2019

Goal: Work on implementation projects for an MES IoT solution.

Highlights:

- First implementations of new node application Connect IoT
- Implementation of IoT and MES solution on multiple industries

>> @Indra

Technology Stack: Java, JSF (Primefaces), HTML5, SQL Server



Junior Software Engineer

2017 – 2018

Goal: Build and migrate an ERP application.

Highlights:

- Working on it from scratch
- Participation on Architecture and design

| EDUCATION and TRAINING|

Master in Electrical and Computers Engineering

Faculdade de Engenharia da Universidade do Porto

2012 – 2017

Major: Automation; Specialization: Industrial Management

Thesis on : “*Estimating wind turbine generators failures using machine learning*”

Erasmus

UNIFI – Università di pisa

September 2015 – March 2016

| OTHER ACTIVITIES|

Founding member of NEEEC

Núcleo de Estudantes de Engenharia Electrónica e de Computadores

A students organization responsible for doing events, conferences and student-teacher relationship in the area of electrical and computer engineering



| PERSONAL DATA|

📍 Porto, Portugal

📅 26/06/1994

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🌐 www.linkedin.com/in/j-roque

🌐 <https://j-roque.com/>

| TECH SKILLS|

C# | Angular | Node | HTML | CSS
Typescript | Javascript | SQL

| CHARACTERISTICS|

Curious | Eager to learn | Rational
Efficient | Communicative |
Adaptable | Dependable |
Persuasive | Proactive | Honest

| LANGUAGES |

Portuguese ██████████

English ██████████

Italian ██████████

| INTERESTS |

Books | Movies | Travelling |
Music | Video-games | Meeting
new places and new people