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Master's Degree in Mechanical Engineering

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FEUP FACULDADE DE ENGENHARIA
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[pauloccosta](#)

[Portfolio link](#)

I have a Master's in Mechanical Engineering and initiated my professional career in a Trainee Program at OGMA and recently as Consultant Engineer at Airbus Operations GmbH in Hamburg, Germany.

My experience as Conductor of Tuna de Engenharia da Universidade do Porto and moving to Hamburg has allowed me to develop an easy and fast adaptation to multicultural environments and problem solving capacity.

The love of working with data has grown in me over the years and I seek to provide the best data driven insights.

Work Experience

Alten Technology – Airbus Operations GmbH

• **Consultant Engineer** (Apr, 2019 – Present)



Cluster Leader Deputy & Integration Engineer

- Management support and contact with stakeholders;
- Development of Trackers, KPIs and Dashboards for easy and fast project monitoring – time saved in presentation making for weekly meetings with stakeholders, improved project OTD and quality and reliability of metrics;
- Provide training guidelines and support for newcomers;
- Quality checks on the integration of Design Solutions (electrical, structural and systems) and DMU support.

OGMA – Indústria Aeronáutica de Portugal

• **Planning Engineer** (Nov, 2017–Mar, 2019)



Developing a VB.NET application for aircraft maintenance planning

- Rough-Cut Capacity Planning (RCCP) and maintenance Gantt visualization;
- Extract data from ERP exports;
- Elaboration of relational tables and communication with SQL server;
- Simulation of scenarios to aid at decision making;
- Allocation and production control (via checklists).

Execution of tasks regarding planning responsibilities

- Leading a weekly Sales & Operations Planning meeting for Civil Aviation and paintshop stakeholders;
- TAT and Slot analysis for civil aviation and aircraft painting;
- Elaboration of a quarterly report for the National Aviation Authority (ANAC).

Analytical Tools



- Excel and Office Tools
- SQL, R and Python
- Data Studio, Tableau
- Basic knowledge in other programming languages
- Currently learning Machine Learning

Highlights



Google Data Analytics Professional Certificate



- Foundations: Data, Data, Everywhere
- Ask Questions to Make Data-Driven Decisions
- Prepare Data for Exploration
- Process Data from Dirty to Clean
- Analyze Data to Answer Questions
- Share Data Through the Art of Visualization
- Data Analysis with R Programming

Education

Integrated Master's in Mechanical Engineering - Automation

Faculdade de Engenharia da Universidade do Porto

(2012 – 2017)

Master's Thesis – “Design and Development of a Monitoring Device for Wrist Movement” - Grade: 18



- Design and development of a 3D printed structure;
- Instrumentation of structure and connection to an Arduino board with a developed Printed Circuit Board;
- Development in Java of a graphical user interface with monitoring, rehabilitation exercises and data logging;
- Development of an online SQL database to enable communication between user and therapist.

About me

Personal

- Fast learner
- Sense of responsibility
- Capacity to handle tasks under stress
- Great teamplayer

Linguistic

- Portuguese (Native)
- English (C2)
- German (B1)
- Spanish (B1)