Beatriz **Rodrigues**
Industrial Engineer

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Education

Integrated Master's in Engineering and Industrial Management – 16/20   2015- 2021
University of Minho, Braga

Technical Skills

Methodologies: Lean Manufacturing; Total Productive Maintenance; Lean Six Sigma; ISO 9001
Programming: Visual Basic; Python | Computer Software: Excel; Autodesk Inventor; SIMIO; Minitab

Experience

Professional Internship   2021
Research and analysis of innovation projects and Continuous improvement focused on quality   *DST group*
- Planned and conducted **internal audits** to assure quality and organization within the construction works by providing lean solutions.
- Monitored and reported procedures according to established specifications.
- Analysis of the causes and costs of **rework** in post-construction.

Projects

Master's Dissertation   2019 – 2020
Increase in efficiency and productivity of an electronic choice sector   *Amorim Cork*
- Developed a **VBA program** to evaluate the impact of a new maintenance operation on productivity.
- Accomplished setup time reduction by 33% and defects reduction by 16% through continuous improvement tools: **SMED** methodology, **parallel machines scheduling** and **andon** normalization.
- Established **autonomous maintenance** activities and developed **standard documents** to ensure optimal equipment operation and process safety without costly downtime.
- Reduced reprocessing and transportation costs of two products by 79% through machine improvement.

Academic Projects   2018 - 2019
Workflow improvement using Lean tools in a non-profit organization   *Refood 100% Braga*
- Reduced non-value-added time by 9% by implementing a **kanban**.
- Workspace organization through **5s** methodology.

Analysis and improvement of Built-in System Interface (BSI) area of a auto-parts company   *Aptiv*
- Reduced cycle time by 5% through **line balancing** and **simulation**.
- Prevented and controlled health risks through the application of **ergonomic tools**: EWA, RULA and MAC.
- Development of a **BPMN** with the collaboration of all the organization's sectors.

Scientific Contributions

[1] SHO, Guimarães: "Ergonomic Analysis of a Fuse Insertion, Press-fit and Test Workstation Using EWA Method - Ergonomic Workplace Analysis"
[2] CISTI, Coimbra: "Corporate memory in the lean context: Preventing short and long-term information loss"