TALIA GIBIM

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Summary

Recent Mechanical Engineering graduate with a passion for Data Science. Proficient in Python, SQL, and machine learning, with experience in data analysis and visualization. Strong problem-solving skills and a solid engineering foundation. Eager to tackle data challenges and drive innovative solutions.

Education

University of São Paulo — São Carlos, BR
Master in Business Administration in Data Science and Analytics — *May. 2024 – Dez 2025*

Federal University of São Carlos — São Carlos, BR
Mechanical Engineering, Grade 8,2, Class rank 4/32 — *Fev. 2018 – Mar 2024*

Experience

Razek — Mar. 2024 – Current
Research and development analyst — *São Carlos, BR*

- Reading scientific articles to compose the summary of clinical evidence for the new product.
- Preparation of documentation for new products for registration with Anvisa.
- Modeling and design of new products in addition to defining the necessary tests to ensure patient safety during product use.

Electrolux — Sept. 2023 – Mar. 2024
Manufacturing intern — *São Carlos, BR*

- Creation of a dashboard using power bi to monitor the return rate in logistics, with data analysis it was possible to identify which and why some components impacted the indicator and through action plans the **impact of the 10 most critical components was reduced by 40%**.
- Using visual basic for application, an interface was created to insert information from the workstation, the system has a login screen and approval flow, with this application it was possible to **reduce the time to enter information by 85%**.

Research and Extension

Federal University of São Carlos — Fev 2021 – Fev 2022
Undergraduate Research Assistant (FAPESP) (Part-time) — *São Carlos, BR*

- Evaluation of vibration-induced textures in hard turning of tool steel.
- Implementation of the stability lobe diagram model in Matlab to predict tool vibration.
- Use of ImageJ software to analyze surface textures and organize the instruments and cutting parameters to carry out the experiment.

Federal University of São Carlos — Fev 2019 – Set 2021
Coordinator and participant of GEMC (Computational mechanics study group) — *São Carlos, BR*

- Group Dedicated to the Study of **Computer Aided Engineering**, including: finite element analysis (FEA), computational fluid dynamics (CFD), multibody dynamics (MBD), durability and optimization
- Carrying out presentations and dynamics in public schools to encourage admission to college.

Federal University of São Carlos — Fev 2019 – Set 2020
Undergraduate Research Assistant (CNPq) (Part-time) — *São Carlos, BR*

- Numerical review, via finite elements, of the temperature and pressure fields acting on cutting tools during the machining process
- Analyzing the results, it was observed that within the limits of each modeling it is possible to use finite elements to predict temperatures and stresses, in addition to the stress map that can indicate the type of tool wear.

Skills

Skills: Notions of statistics, Great programming logic, Machine learning, SQL, Python , Advanced excel, Power Bi.

Idioms: Advanced English and Native Portuguese.

Courses: CS50 - Introduction to Computer Science.