



George BOLES

PhD Student /
Research Engineer -
University of Bordeaux
-France

Contact

Address
33600, Pessac France

Phone
0766703885

E-mail
georgeemad@live.com

Skills

AnyLogic

@Risk

Python

Java

Lean & Six-sigma & 5S &
KANBAN

OpenLca software - GaBi
software

Primavera - Sap2000

Languages

English, French, Arabic

Work History

2022-01 -
2023-12

Research Engineer

Institute Of Mechanics And Engineering I2M – Gascogne Bois Sawmill -University Of Bordeaux, Bordeaux

I2M and Gascogne Bois Sawmill

- Project Artificial intelligence for wood: The project aims to develop data acquisition and learning methods for diagnosing wood quality using AI.
- AnyLogic simulation of all production process will be used to build a digital twin of the sawmill, to optimize production and detect bottlenecks, while integrating machine learning to estimate wood quality.

2021-11 -
2021-12

Research and Development Engineer

The Institute Of Mechanics And Engineering I2M- University Of Bordeaux, Bordeaux

- Carry out a cost cycle analysis study (Life Cycle Costing – LCC) for plywood, paper pulp, pallets, granules.

2021-03 -
2021-08

Intern Engineer

The Institute Of Molecular Science ISM And The I2M - University Of Bordeaux, Bordeaux

ISM, CyVi - The life cycle group, The I2M and Labrousse sawmill

Carry out a Life Cycle Costing study LCC of timber for construction wood and wood for pallets of maritime pine. To be part of a Life cycle sustainability assessment LCA study. carried out alongside with **Labrousse** sawmill.

Education

2022-11 -
Current

Ph.D.: Industrial Process Engineering

University of Bordeaux - Bordeaux - France

Combined Data Analysis simulation: developing a decision tool using a digital twin for wood sawmills. Doctoral school of physical and engineering sciences **SPI**, Laboratory **I2M**, Mechanical Engineering and Design department IMC.

Gascogne bois Sawmill

The PhD consists of collecting industrial monitoring data of **Gascogne bois saint symphorien** Sawmill, observing the industrial process flow, monitoring, documenting and analysing the production rate, behavior and downtime. Using AnyLogic software to model and simulate the process to act as a digital twin in order to calibrate the suitable production rates for each production line in the sawmill, detect the bottle necks and reorganize the production flow and optimizing the whole production of the sawmill.

2020-08 -
2021-09

Master in Science, Technology, Health: Enterprise Engineering

University of Bordeaux - Bordeaux-France

International Master 2 in Enterprise Engineering at the University of Bordeaux. The Master's degree in science, technology, health, branch of Complex Systems Engineering - Enterprise Engineering course.

- Simulation & Modeling • Quality • Optimization • Performance indicators • Supply chain • Industrial supervision • Continuous improvement •Production Planning and scheduling

2013-08 -
2018-08

Bachelor of Civil Engineering

Canadian International College CIC - Cairo -Egypt

The Canadian International College, is an Egyptian University in Cairo, Egypt.

- Result: 76.19% (Grade C), GPA (cumulative): 2.58/4.
- The final study project focused on flood protection structures (Grade A).
- some of Civil engineering subjects are: Construction Foundation, Reinforced Concrete Design, Roads Design