

Jad Dannaoui

Computational Engineer

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PROFILE

Highly motivated Mechanical Engineer with extensive experience in optimizing machinery and production processes. Proficient in renewable energy systems and lean manufacturing techniques. Skilled in CAD design, FEA analysis, and troubleshooting mechanical systems. Proven ability to deliver cost-effective engineering solutions that increase efficiency and minimize downtime. Eager to contribute technical expertise to challenging mechanical projects.

EDUCATION

Master's in Computational Engineering

Lebanese University

present
Tripoli, Lebanon

Focused on advanced computational modeling, simulation, and optimization for mechanical engineering applications.

Bachelor's Degree in Mechanical Engineering

Beirut Arab University

06/2022
Tripoli, Lebanon

Graduated Second in my class with a CGPA of 3.5/4.0. Specialized in machinery operations and mechanical system design.

Relevant coursework: Fluid Mechanics, Thermodynamics, and Renewable Energy Systems.

PROFESSIONAL EXPERIENCE

Research Project – Energy Efficiency

Lebanese University

present

Lead a project on integrating Phase Change Materials (PCM) into construction materials for enhanced energy efficiency. Developed and Optimized simulation models to create energy-saving building designs.

Trainee Machinery Technician

MPCF

11/2022 – 06/2023

- Spearheaded initiatives to optimize tissue paper production, resulting in a 15% reduction in waste and a 10% increase in output.
- Conducted troubleshooting of machinery, reducing production line downtime by 20%.
- Utilized Lean manufacturing principles to streamline processes and improve workflow efficiency.

Vertical axis wind turbine

Independent Project

2022
Tripoli, Lebanon

Designed and built a vertical axis wind turbine. Focused on optimizing blade shapes and configuration to increase energy output by 30%. Managed data collection and performance analysis for renewable energy research.

SKILLS

Engineering Processes:

- Lean Manufacturing & Six Sigma
- Renewable Energy Systems (wind, solar, etc.)
- HVAC Design & Installation
- Thermodynamics & Fluid Dynamics
- Material Science for Manufacturing

Project Management:

- Cost Estimation & Budget Management
- Technical Documentation & Reporting

Soft Skills:

- Leadership & Teamwork
- Problem-Solving & Critical Thinking
- Attention to Detail
- Effective Communication

LANGUAGES

Native in Arabic	Fluent in English
Proficient in French	