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Dynel Lewis

Profile according to the job

I am pursuing an MS in Wind Energy at the Technical University of Denmark, focusing on Wind turbine Loads, Optimization and Techno-economic analysis for Wind energy applications. I have two semesters of coursework and one semester of thesis left in my studies. I served as the Board Member for the Wind Energy Student Assocation at DTU.

I am currently seeking an Internship at a Renewable Energy Services/ Engineering company to leverage my technical expertise and contribute meaningfully to the green energy transition. In my free time, I like to bike, run, and play chess.

Education

Sept 2023 – Current

Technical University of Denmark (DTU) | *Copenhagen, Denmark*
Master's in Wind Energy

Major Courses: Micrometeorology for Wind Energy, Wind Turbine Aerodynamics and Aeroelasticity, Computational Fluid Dynamics, Applied CFD using Star-CCM+, Planning and Development of Windfarms, Scientific Python Programming for Wind Energy, Energy Economics, and Feasibility Studies of Energy Projects.
Volunteering Activities: Student Union Representative for the Wind Energy Student Association (WESA) at DTU, Business Development Intern at Offgrid Photovoltaics.

Sept 2019 – Jun 2023

Manipal Institute of Technology (MIT) | *Manipal, India*
Bachelor's in Mechanical Engineering | Grade: 7.8/10

Activities and societies: Treasurer at ASME Manipal, General Secretary at Economics Society of Manipal, Social Media Head at MIT Chess Club, and several volunteering experiences.
Major Courses: Combustion Engines, Design of Thermal Power Plant systems, Refrigeration and Air Conditioning, Operations Management.

Work Experience

Sept 2024- Dec 2024

Business Development Intern | Offgrid Photovoltaics Inc.
- Performed competitor analysis for a startup, evaluating the competitive landscape through the lens of company similarity and Technology Readiness Levels (TRL) to inform strategic positioning.
- Contributed to the value proposition analysis of the deep-tech product by identifying and evaluating potential pilot plant locations to assess feasibility and scalability.

Feb 2023- Jun 2023

Engineering Intern | Athon Allterrain Ltd., Bangalore, India
- Design for Manufacturing and Assembly (DfMA) of the Trailing arm of the suspension system using the Boothroyd Dewhurst method to simplify the manufacturing processes and maximize the assembly efficiency.
- Gained experience in Value Analysis by performing should costing of various raw materials and metalworking processes to aid procurement.

Projects

Feb 2020 – Mar 2021

Team Manipal Racing
- Worked as a Structures subsystem member for the university off-roading team on the design of the chassis and other vehicular components for the SAE Baja Competition.

Jan 2022 – Dec 2022

Undergraduate Student Researcher
- Assisted a professor in my undergraduate university department on the Fluid-Structure interaction of an elastic plate and studied its behaviour under different parameters. This study is summarized in a research paper given below:- https://doi.org/10.1016/j.oceaneng.2024.116920.
- Worked on a course project to visualize the onset of vortex-induced vibrations for an abstract problem of a cylinder by varying the flow characteristics and confirming the periodic oscillation with the aid of several relevant plots. I had further written a literature review on the technological aspects of Hydrogen FCEVs and its prospects.

Jan 2024	**Case Study of Greater Gabbard Offshore Wind farm**

- The scope of work of the case study is to propose an optimized layout for the Greater Gabbard project while keeping the total capacity of the whole wind farm the same as the original layout.
- The work was done with the help of a wind resource assessment tool to find solutions for all stages of the project followed by an Environmental Impact Assessment (EIA). This was followed by optimizing the grid connections and concurrently studying the economic factors that could influence the project.

Digital Skills

Computation Tools	Computer-Aided Design	Report Writing
• Python • MATLAB • Star-CCM+	• SolidWorks • Creo Parametric	• Overleaf (LaTeX) • Microsoft Office

Languages

Konkani	|	Native
English	|	Level C2 (Proficiency) - Certification: IELTS – 7.5/9.0
Hindi	|	Proficient
French	|	Basic