PURIM LADPLI

Wind Energy Engineer Specializing in TDD, Risk Assessments, and Project Management



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PROFESSIONAL SUMMARY

Experienced Senior Engineer and Technology Advisor with over 12 years in renewable energy, specializing in wind energy, battery storage systems, and technology commercialization. I have deep expertise in technical due diligence, risk assessments, and project management for onshore and offshore wind projects. My experience includes leading multidisciplinary teams, conducting technical analyses, and ensuring compliance with industry standards such as DNVGL and IEC. I have secured strategic partnerships and managed complex projects from inception to financial close, consistently delivering high-quality results. Passionate about driving the energy transition, I bring a structured and analytical approach to optimizing wind energy projects and supporting stakeholders in achieving their goals.

CORE COMPETENCIES

Wind Energy	Risk Assessment	Technical Due Diligence
Renewable Energy	Failure Mode and Effects Analysis	Systems Engineering
Battery Energy Storage	Compliance with Industry Standards	Team Leadership
Hybrid Power Systems	Technical & Commercial Feasibility	Project Management

PROFESSIONAL EXPERIENCE

SIEMENS GAMESA RENEWABLE ENERGY — **AALBORG, DENMARK**

SENIOR BLADE STRUCTURAL ENGINEER — Apr 2022 – Present

- Advise project leaders and engineers on new materials, structural design, and lightning protection system development, contributing to a €0.85m value added and €50k in cost savings per turbine.
- Coach junior structural engineers in the lightning protection system and sensor team, enhancing their competencies in technical risk assessment and failure mode and effect analysis.
- Establish and onboard a team of 5 engineers at the India Design Center, positioning the team as the primary hub for blade technology verification and validation.

BLADE STRUCTURAL ENGINEER — Apr 2021 – Apr 2022

- Led and managed a project team of 12 engineers to integrate advanced structural and material technologies into new wind blade products, ensuring compliance with wind turbine blade certification standards such as the DNVGL and IEC standards. This resulted in a 2.5% AEP increase or a €1M value added per turbine.
- Received the “Thank You” Award in the Ownership Attitude category, selected from among 500 company-wide nominees.

GRADUATE BLADE STRUCTURAL ENGINEER — Feb 2019 – Apr 2021

- Spearheaded a 52-meter wind turbine blade test to validate sensor systems for structural health monitoring, managing stakeholders from universities, public research institutes, and companies.
- Oversaw the shear web component design of all offshore blade products across the value chain.

STANFORD UNIVERSITY — **STANFORD, USA**

TECHNOLOGY ADVISOR — Mar 2019 – Aug 2021

- Coached a team of 2 postdoc fellows, 3 PhD researchers, and MS students in a startup-style research program aimed at industrializing and commercializing my battery system inventions.
- Secured $5M in second-phase support from the US DoE, conducted technical due diligence and feasibility analyses for industry partners, and developed strategic partnerships for investment.

PHD RESEARCHER — Sep 2012 – Mar 2019

- Conducted rigorous research in a team-based setting and supervised 20 graduate researchers.
- Wrote 10 successful research proposals winning $5M in funding from public and private sectors.
- Invented a structurally integrated lithium-ion battery technology and a novel ultrasonic technique for measuring battery charge. Two patents have been commercially licensed.

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PROFESSIONAL EXPERIENCE (CONTINUED)

- Won the US DoE ARPA-e RANGE Program award with $3M in grant funding, and garnered substantial industry interest to pursue commercialization.

VARIOUS COMPANIES **BANGKOK, THAILAND**

INTERNSHIP POSITIONS Mar 2009 – May 2010

- Helicopter Engineer Intern at the Electricity Generating Authority of Thailand.
- Production and Maintenance Planner Intern at Thai Airways International.

LEADERSHIP AND SERVICE EXPERIENCE

STRUCTURES AND COMPOSITES LABORATORY, STANFORD UNIVERSITY **STANFORD, USA**

LAB MANAGER & SAFETY COORDINATOR Sep 2013 – Sep 2018

- Managed $400k in equipment purchases and budget allocation. Oversaw operations and provided safety training for 15 researchers on 50 pieces of lab equipment.

INTERNATIONAL WORKSHOP ON STRUCTURAL HEALTH MONITORING **STANFORD, USA**

CONFERENCE GENERAL MANAGER Sep 2012 – Sep 2017

- Led a team of 20 organizers and coordinated the $500k budget to execute four-day conferences attended by 700 international participants in 2013, 2015, and 2017.

DEPARTMENT OF AERONAUTICS & ASTRONAUTICS, STANFORD UNIVERSITY **STANFORD, USA**

GUEST LECTURER Mar 2016 – Jun 2017

- Delivered lectures and hands-on lessons in the AA257 Design of Multifunctional Composite Structures class. Led the class in manufacturing a carbon composite electric skateboard.

SELECTED PUBLICATIONS AND PATENTS

SCIENTIFIC ARTICLES (33 PUBLISHED)

- Example: Ladpli et al., "Estimating State of Charge and Health of Lithium-ion Batteries with Guided Waves Using Built-in Piezoelectric Sensors/Actuators," *Journal of Power Sources* (2018).

PATENTS (6 OBTAINED)

- "Battery State Monitoring Using Ultrasonic Guided Waves," WO2017223219A1 (2016).
- "Multifunctional Energy Storage Composites," WO2016127122A1 (2015).

EDUCATION

STANFORD UNIVERSITY **STANFORD, USA**

PhD in Aeronautics & Astronautics, Minor in Microelectromechanical Systems Jun 2019

STANFORD UNIVERSITY **STANFORD, USA**

MS in Aeronautics & Astronautics Sep 2014

KASETSART UNIVERSITY **BANGKOK, THAILAND**

BEng in Aerospace Engineering, Highest Distinction May 2012

SKILLS AND LANGUAGES

Technical Proficiencies: MATLAB/Simulink | R | Python | LabVIEW | C++ | ANSYS | COMSOL | Abaqus | Nastran | Catia | SolidWorks | WAsP | windPRO

Language Skills: English (Fluent) | Thai (Native)