



MøllerBladeConsult – V/Flemming Møller Larsen

Christiansfeld ☎ +45 2118 8007 ✉ MoellerBladeConsult@gmail.com 🔗 LinkedIn: [MøllerBladeConsult](#)

Curriculum Vitae – Blade and composite specialist

With 32 years of experience within the wind turbine blade industry (Ørsted, Hexcel, SSP Technology and LM Wind Power) I now wish to use this knowledge in my own company and offer consultancy services to wind turbine blade-operators, manufacturers, partners and service companies etc. within the wind turbine blade industry.

Services are related to wind turbine blade processing and operational performance such as OEM blade design, Lightning protection system, Blade manufacturing, Quality assurance / inspections and Damage assessment for on- and offshore wind assets.

Based on my extensive experience within the wind turbine blade industry and blade operational performance I can link this knowledge to specific tasks to evaluate and address risk exposure and consequence impacting on operational assets. Experience which has resulted in innovative solutions including patents.

Personally, I am an extrovert, flexible, systematic, persistent and highly motivated person striving to deliver value. Additionally, I demonstrate adaptability to diverse working environments and excel in collaboration and communication within varied organisational contexts.

To support my engineering degree, I hold a practical background as marine mechanic and flight technician within the Danish military which support practical and solution-oriented solutions.

Provided services aiming at wind turbine blades:

- Manufacturing Readiness Assessments: Expert in technical assessment of design and processing details
- Processing & Quality Surveillance: Expert in conducting surveillance reviews, focusing on management systems, material handling, process requirements and documentation for wind turbine blades
- Ownership Transition Inspections: Expert in conducting OEM to Employer handover inspection
- Damage Inspections: Specialized in assessing wind turbine blade damages caused from operational exposure and lightning strike focusing on cause and consequence
- Field Operational Inspection: Expert in assessing drone inspection images and perform defect categorization addressing operational status assessment including reporting
- Lightning Protection System Assessments: Expert in LPS design, manufacturing and quality surveillance, system performance, risk exposure and industry requirements (IEC 61400-24 Lightning Protection standard).



PROFESSIONAL WORK EXPERIENCE

Senior Blade & Composite Specialist Ørsted Wind Power Engineering EPC

01/2012 – 05/2026

Key focus: *Technical due diligence, Technical risk assessment (TRA), Root cause analysis (RCA), Lightning Protection System, Manufacturing and Quality assurance, Audit & Surveillance activities, Operational support for on- and offshore wind assets, Blade repair material and process optimization (cost-out), Documentation*

Selected key responsibilities and achievements

- Technical Due Diligence and Risk Assessments (TRA): Supported validation of blade designs and systems. Built strong technical cases which supported design and process changes leading to OPEX reductions as well as successful quality claim settlements benefiting Ørsted
- Root Cause Analysis (RCA): Supported Ørsted RCAs and joined contractor RCAs to identify underlying failure modes, enabling faster implementation of solutions which significantly reduced OPEX.
- Manufacturing QA: Conducted OEM audits and surveillance (HSE, material, processing, specifications, NCR and management system requirements), resolving issues immediately on the floor. Ensured “right first time” quality, preventing supply delays
- Operational Support: Conducted global operational support for inspection analysis, wear and tear, defects, Lightning impact, repair strategies supporting optimized asset operations aiming at maintaining or reducing OPEX
- Claim Support: Supported Ørsted claim division with technical information to minimize financial risk and ensure operational continuity. Facilitating cost recovery for defect or damaged components
- Innovation (UV Curing): Led business case, supplier selection, trials and implementation of next-gen UV repair materials. Reduced significantly the OPEX by cutting repair times, turbine downtime, and offshore transfers
- Lightning Protection (Design, manufacturing and quality): Pushed OEM LPS improvements for glass and carbon composite blades beyond IEC requirements. Achieved higher lightning interception and conduction efficiency, reducing lightning damage (extend and number of damages)
- Lightning Protection (IEC 61400-24 Standards committee work): Motivated improvements of mandatory requirements for design and verification testing for specifically carbon blades to ensure improved interception and conduction efficiency and thereby correlation in-between IEC standard, system certification and field experience

Technical material and process support engineer Hexcel Holding GmbH (Austria)

11/2008 – 12/2011

Key focus: *Customer Pre-Preg composite material manufacturing and quality support. Material and process surveillance / optimization / cost out*

Selected key responsibilities

- Performed technical composite material support in-between Hexcel manufacturing, quality, and the end customer within northern Europe
- Performed internal material and process surveillance and optimization activities at customer facilities.
- Performed focused material and quality optimization and cost-out initiatives
- Developed test specifications for assessing new materials and processing ideas



Project development engineer
SSP Technology A/S

10/2003 – 10/2008

Key focus: Customer design and process development, Process improvement, Serial manufacture upscaling, Lightning protection system

Selected key responsibilities

- Acted as design, material and process development engineer developing customer ideas towards final product i.e., Small-scale, medium-scale and large-scale trials to investigate design and processing feasibility
- Acted as process engineer responsible for process improvement as well as scaling up serial manufacture of wind turbine blade lightweight blade root end sections
- Acted as lightning protection system designer developing a system for a 34 m wind turbine blade

Lightning protection system design and processing engineer
LM Wind Power

08/1994 – 09/2003

Key focus: Lightning protection system

Selected key responsibilities

- Acted as lightning protection specialist responsible for lightning protection design, material, and manufacturing process developments, test and verification effort against IEC 61400-24 lightning protection standard and certification of systems

Manufacturing and technology engineer
Gram A/S

04/1991 – 07/1994

Key Focus: Factory support, Product and process optimization / cost-out

Selected key responsibilities

- Acted as manufacturing and technology engineer focusing on factory support, product and process optimization and manufacturing cost out for domestic refrigerators and freezers

EDUCATION & CERTIFICATION

- APQP4Wind – Ørsted 2020
- Six Sigma Green Belt – Hexcel Holding 2011
- Mechanical Engineer (design & Construction) – Kolding technical 1990
- ISO 9000 Quality Control system – Kolding Technical (1989 – 1990))
- Flight Technician (F16) – Royal Danish Air Force (1986 – 1989)
- Marine technician – Royal Danish Navy (1981 – 1986)

TECHNICAL SKILLS

Microsoft Office, Active Risk Manager (Risk tool), Cornis (drone inspection image review tool)



LANGUAGE

- Danish: Native
- English: Speaking, Reading, Writing
- German: Reading, Listening

ØRSTED AWARDS

Special recognition awards received in 2018, 2021 and 2023 (from three different managers)

PATENTS (INVENTOR / CO-INVENTOR)

- Patent no.: 11466667 Title: Wind turbine lightning diagnostic apparatus and lightning stroke diagnostic method – Ørsted
- Patent no.: 9370905 Title: Module for holding at least one bushing – Hexcel Holding
- Patent no.: 6979179 Title: Wind turbine rotor blade with combined lightning receptor and drain passage receptor with drain passage – LM Wind Power
- Patent no.: 7390169 Title: Lightning protection of a pitch-controlled wind turbine blade – LM Wind Power
- Patent no.: 6457943 Title: Lightning protection for wind turbine blade – LM Wind Power
- Patent no.: 6612810 Title: Wind turbine blade with a system for de-icing and lightning protection – LM Wind Power

PERSONAL

Married, father of adult twins, old wooden boats including sailing, house renovating, nature, biking

REFERENCES

References are available on request