



Jean-Baptiste BREBAN

Operation & Maintenance Engineer

WORK EXPERIENCE

Root cause analysis leader – Mechanical specialist



GE VernoVA – Nantes – 2022/ 2025 [3 years]

- Manage the resolution of technical non-conformities with focus on mechanical components (main or secondary structures, blades, yaw, welding, bolting or corrosion defects)
- Lead root cause analyses related to major technical failure affecting the fleet in coordination with all stakeholders (site operations, engineering, quality, purchasing, legal)
- Project management and interface with site technicians, client and authorities for the implementation of repair operations
- Share lessons learnt and follow preventive actions related to identified root causes

Projects: Vineyard[USA], Dogger Bank[UK], HAL-X Rotterdam prototype, Parc du Banc de Guérande [France], Merkur [Germany], Block Island[USA], CTG[China], Belwind[Belgium] // Platforms: HAL-1, HAL-X

Operation Control Center team leader

CGN Europe Energy - La Défense 2019/ 2022 [3 years]



In charge of a team of 5 persons with 500k€ annual budget

- Operation and maintenance supervision of 2.4GW of wind and solar sites
- Identification of stops, curtailments, alarms and underperformances affecting the fleet
- Data quality of the SCADA based Greenbyte Energy Cloud (by Power Factors)
- Technical support (blade systems certification, life-extension, availability calculations, foundations defects, SCADA based CMS implementation, predictive maintenance trial)
- Participation to research projects (The Digitalization of Maintenance Information [DigMa Fraunhofer IWES], Next generation of Blade Certification Standard DNV-GL JIP)

Wind and Solar Operation supervisor CGN Europe Energy - La Défense 2017/ 2019 [2 years]

- Site monitoring (wind farms and solar sites)
- Monitoring system procurement and set-up (Greenbyte Energy Cloud [former Breeze])
- Blade inspections (Cornis)
- ISO 55001 Asset management internal audits
- HSE procedures follow-up (ex: Wind Turbine Safety Rules in Ireland and UK)

Wind structure engineer

Bureau Veritas - La Défense – 2012/ 2017 [5 years]



- Load calculations (Samcef for Wind Turbines software) [Fécamp, Saint-Nazaire, Rampion (UK)]
- Design review of wind turbine towers, blade lifting equipment, RNA mechanical components
- Inspection of wind turbine foundations, ultrasonic shaft test inspection supervision
- Wind Eurocode training

Standards: Eurocodes, IEC 61400-1, -3, GL 2010, GL 2012, DNV OS J101, F.E.M, EN 13155

References : EON, EDF-EN, GE, Vestas, Siemens Wind Power, Acciona, Maïa Eolis, Eole-RES

Personal project in South America 2015> 2016 [1 year]

- Coffee roasting using a solar concentrator [start-up COMPADRE - Peru]
- Manufacturing of small wind turbines for communities without electricity [WINDAID NGO - Peru]
- Bike trip : 2600 km by bike through Peru, Bolivia, Chili and Argentina

EDUCATION

5th year of engineering training KTH Kungliga Tekniska högskolan – Stockholm – 2010> 2011 [1 year]

Main course: wind energy

Ecole Centrale de Nantes 2008> 2010

1st year: mechanics, structure, hydrodynamics, power electronics and computer science

2nd year: wind and marine energies (offshore wind, waves, tidal)

SKILLS

Qualifications

- GWO
- ISO 55001 Internal auditor

Computer skills

- Pack office including Office 365 (Sharepoint and Power App)
- Mathcad
- Samcef for Wind Turbines
- HAWC2
- Solidworks
- *Programming : Python (Matlab)*

Languages

- French : native
- English : fluent and able to write technical reports
- Spanish : fluent
- Swedish : beginner

HOBBIES

Sport

- Member of Nantes Floorball (competition within Pays-de-la-Loire)
- Sailing : ex member of the Société des Régates du Havre. Training and competition on J80 boats
- Rowing : 6 years of competition at a national level, instructor diploma
- Climbing, running

Culture

- 10 years of saxophone
- Previously member of the association organizing cultural events in the Ecole Centrale de Nantes