

# Alexy AZEMA

## PROJECT ENGINEER / PACKAGE LEAD / MECHANICAL PACKAGE ENGINEER

### Field:

- Oil & Gas / Offshore Industry
- Spatial / Aeronautic Industry
- Automotive Industry

### Competences:

**Over 20 years of experience in multi-disciplinary Industrials Mechanical Engineering.**

**Over 10 years of experience in Oil & Gas EPCC Projects:** Mechanical Engineering, Package management, Interface coordination, Fabrication inspection, Expediting, Performance testing, Technical support to Construction / Installation / Maintenance and Commissioning.

- Preparation of requisitions/ tenders, CFT, Technical and Commercial bid evaluations
- Commercial and Technical Clarification, TBT, CBT, RTA, PO Review
- Project studies, Mechanical Engineering, design drawings and study, datasheet, Specifications, documentations review,
- Engineering Meetings, Design Review, choice on engineering solutions with specialists,
- KOM, PIM / PFM, ITP, FQCP, Interfaces coordination, Quality, Schedule, Cost...
- CPY HSE rules and Codes application
- HAZOP / HAZID / SIL / ELHAZ
- Follow-up, Expediting and progress monitoring of suppliers, Vendors follow-up.
- Performance Test, FAT, String Test, SAT
- Management of NCR, CR, TQ, DV, OWL, TOW, Punch list clearance, Release (IRC), Mechanical Completion Dossier
- Preparing / checking of Installation Operation and Maintenance Manuals
- Construction / Installation assistance and covering, preservation and maintenance operation, Integration Offshore
- Pre-com / Commissioning on yard and Offshore

### Equipments:

Electro Hydraulic/ Mechanical equipments, Wellhead Control Panel, HPU SSIV, HOU, Winch, locking system, Seal isolation System, Pumps (reciprocating, centrifugal, positive displacement, screw), Air Compressors, Air Dryer, ON/OFF Valves, ESDV Valves, Ball Valves API 10K, PIG Trap Valve, PIG Receiver/Launcher, Nitrogen generation, Sand Treatment, Separators, Produced Water Buffer Tank, Mercury absorber, Gas Fiscal Metering, Diesel Generator,...

### Norm and Standard:

- ASME, API 6A / 6D, ASTM
- DNV, Norsok
- GS EP
- GOST

### Accreditation and Certification:

- BOSIET, HUET, FOET, GWO

### Tools :

- MS Project, eCDR, eDMS, eComments, Prodom, eRoom, PDB, VDB, EPC-business, ISDB

<b>State</b>	<b>Nationality</b> : French
	<b>Date of Birth</b> : 6th September 1971
	<b>Contact Numbers</b> : +33 662 180 978
	<b>Email</b> : <a href="mailto:alex@azema.fr">alex@azema.fr</a>
	<b>Qualifications</b> : <b>Degree Mechanical Design Aeronautic &amp; Automotive Engineering</b> (ESTACA 95) <b>Higher Master Aeronautic &amp; Spatial Mechanical Structure Specialization</b> (Sup' Aero 97)
<b>Mobility</b>	<b>Permanent or Rotational:</b> Everywhere + Offshore.
<b>Availability (Notice Period)</b>	4 weeks

## PROFESSIONAL EXPERIENCES

<b>TOTAL E&amp;P - Paris</b>	
<b>Package Lead</b>	
<b>March 2013 - Present</b>	<b>OIL &amp; GAS</b>
<b>MARTIN LINGE Project – Platform / FSO - Oil and Gas – TOTAL EP NORGE</b>	
<p>As CPY Rep for TOTAL, in charge to follow-up Topside packages equipment on Martin Linge Project Oil and Gas Platform, UPF (Utility, Process and Flare modules), and to follow the Contractor (TECHNIP PARIS) for all the steps, starting from Requisition / CFT, CBT and TBT, RTA, Engineering, Interfaces, Follow-up until FAT / String tests.</p> <p>Assist, follow-up and guide Contractor on Requisitions, Bid Opening, Short List, Commercial and Technical Bid Evaluation, Commercial and Technical clarifications, Technical Bid tabulation, Commercial Bid Tabulation, selection of the vendors, RTA (Recommendation To Award), Purchase Orders. Audit of the Vendors, ensure Norsok requirements, M-650 QTR acceptance, DNV rules and Total GS EP specifications application. Comments, consolidations and Approbation of all Contractor Documents, SR, MR, PO, DS, PDS, PID, GAD, Spec ...</p> <p>CTR Follow-up and Interface coordination, Budget /VOR, schedule, Kick off Meeting, Project studies workshop, Mechanical engineering, Drawings, PID, DS and Spec comments and approval. Follow-up, Expediting and Inspection of the Vendors and sub-vendors, KOM, Pre-inspection meeting, pre-production meeting, weekly/monthly meetings, Technical follow-up, Technical approbation, Deviations, Technical queries, Concession, Performance Test, FAT, String Test, Punch List, Final inspection, OWL, TOW, preservation dossier, Final Documentations, Mechanical Completion Dossier, IOM...</p> <p><b>In charge of Equipments:</b> <b>Air compressors / Air dryer, Emergency and Essential Diesel generators, Wellhead Control Panel, HPU SSIV, ESDV, ON/OFF valves, Gas Fiscal metering, Multiphase flow meters, Nitrogen Generation, Sand Treatment Package + Sand Bags Unit, Separators, Rotary pumps, Ball valves API 10.000, Pressure Safety Relief valves, Pig Trap Valves, Pig Launcher / Receiver, Produced Water Buffer tank, Mercury absorber.</b></p>	

## SBM OFFSHORE - Monaco

### Lead Mechanical Package Engineer

August 2009 – February 2013

OIL & GAS

**FPSO:** **ASGARD A** (Statoil – Norway- Gas) / **ASENG** (Noble energy – West Africa – Oil and Gas) / **QUAD 204** (BP – UK North Sea – Oil and Gas) / **TUPI** (Petrobras – Campos and Santos basins, offshore Brazil – oil and gas) / **KIKEH** (Petronas – East Malaysia – Oil) / **SHTOKMAN** (FEED –Total / Gasprom – South Barents Basin – Gas)

**BUOY:** USAN / JICA / MUSANDAM

Responsible for FPSO Equipment on Turrets Swivel stack and on Topsides for the preparation of Specifications, Design review, Technical bid evaluation, Technical clarification, technical reports, technical co-ordination, review of Vendor documents, Analysed customer requirements, local and company rules and specifications (UK, Europe, North Sea...), Design, Calculation notes, Datasheet and P&ID checking (ASME, API, DNV, Norsok, GOST), leading technical meetings, Engineering, discipline co-ordination, attend HAZOP / HAZID evaluations, suppliers follow-up, witness / performance testing, FAT, Pre-commissioning and Commissioning, Operations.

Packages on Turrets (internal and external mooring): Swivel Stack: Seal Isolation System (OPS HPU, LPU, LLU, LRU), Heavy Oil system, Locking device, Greasing system, Riser winch, Anchor Leg load monitoring, Chemical Injection System - (Asgard, Aseng, Kikeh and Quad204).

Packages on Topsides: Subsea valves HPU, Winch, pumps (reciprocating, centrifugal, positive displacement). (Tupi, Feed Shtokman, Aseng)

Packages on Buoys: Subsea Actuators Ball Valves HPU, Surge pump, winch, Release Hook, QCDC. (USAN, MUSANDAM, JICA)

Construction supervising, Installation, Operation and Maintenance Manuals for Hydraulic Power Unit, Seal isolation System, Winch and Pumps. Aseng FPSO Singapore Yard.

Pre-Com / Comm : Asgard FPSO, UK Yard, 6 months, Turret Swivel Stack Seal Isolation System Equipment Chemical Injection System and Hydraulic Winch. Aseng FPSO, Singapore Yard, 6 months, Turret Swivel Stack Seal Isolation System, Locking Device, Greasing System, and Riser Winch.

Maintenance and Commissioning Offshore : FPSO Kikeh, refurbishment plus commissioning on complete Turret seal isolation system

**Management of a Mechanical Equipment Engineering Office for externalisation (5 Designers and 7 Engineers).**

## TECHNIP – Le Trait

### Project Manager

**February 2007 – July 2009**

**OIL & GAS**

#### **Yard Crane, Heavy Lift Crane capacity 20.000 meter-tonnes**

Management of the overall project to put in place on the yard of Technip at Le Trait a Crane big capacity for Offshore equipment loading on supply vessels.

Interdisciplinary (international) coordination, Geotechnical, Civil work, Design, Manufacturing, Assembly.

Prepare scope of work, man hour and project cost estimates, work progress, project planning.

Management of team in various disciplines and international team in part time.

Management issue with involved expert and involved Third Party.

Supervising design, manufacturing, yard and workshop activities, handling, installation, erection, hook-up, commissioning, FAT, Certification.

Suppliers follow-up, Documents schedule, manufacturing schedule, commissioning schedule, cost control, safety control, Quality plan, Risk assessments, progress monitoring, FAT procedures, punch list, etc.

18 Months on yard Site (Le Trait).

**Budget 17 M€, used 16 M€, Delivered at the date of the initial schedule, 100.000 man-hours, 0 LTI, 0 incident**

## AIRBUS / ZODIAC AEROSPACE - Châteaudun

### Project Manager

**January 2005 – January 2007**

**Aeronautic**

#### **Trimmable Horizontal stabilizer Actuator for the Airbus A380 and A400M**

Monitoring of studies, tests, qualifications and manufacturing of the THSA.

Management of the design, manufacturing, cost, planning, suppliers, sub-contractor and project team (Designers, Engineers, purchasers, manufacturing)

Interface coordination with AIRBUS.

Customer reports and meetings, CDR, PDR.

## **FERRARI Competizioni- Modena**

### **Race Engineer**

**April 2001 – October 2004**

**Automotive**

#### **Race Car Tuning**

During my work at Alcatel Space, I worked in parallel for Ferrari during the week-end and days Off to perform race car for French and World GT Championship and also to perform 24H du Mans.

My position was to analyse the track and the car performance to set-up the car (engine + frame) and finalize a race strategy.

Worked on the development of the Maserati MC12 and Tests for the F1-2002, 03, 04.

Tool : DAS 5.0

## **ALCATEL SPACE - Cannes**

### **Satellite Operation Engineer / Team Responsible**

**December 2000 – December 2004**

**Spatial**

#### **Operation Satellite for orbit launch and activities**

Responsible to operate Astra 1K Satellite for orbital launch and operational window orbit. Specification and mission preparation for satellite ASTRA 1K; Technical manual, user manual; operational procedures launch procedure and orbit window installation procedure.

Customer engineer training, simulator, and launch in orbit.

Team Responsible to manage 17 Engineers working on 5 Operations launch orbital satellites (Hotbird 6, Atlantic bird 2, Stellat, GE 2I) for Alcatel Space.

## ESA - Toulouse

### Test Engineer

September 1999 – November 2000

Spatial

#### **Air Treatment system Test Bench for International Space Station**

Test responsible for Life System Equipment, Design and Development of a Test Bench for Air Treatment Equipment (CFA & CWSA: Fan assembly & Water separator) for the European Laboratory module (COF) trimmed on the ISS space station. The aim was to put in place different test bench to test and simulate equipment in real condition and check if the equipments perform with specifications.

Test definition following ESA specifications request performances

Test bench design, test procedures, tests, and tests analysis, reports.

Tests done: Aerodynamic, vibratory, micro vibratory, hydrodynamic, Electrical consumption, empty space, thermodynamic and combined.

## AIRBUS - Toulouse

### Project Engineer / Scrutinizing

June 1997 – August 1999

Aeronautic

#### **Expediter / Scrutiny for Airbus equipment sub-contracted**

Delegated by Airbus on Site Supplier, I had to check and follow-up the Suppliers who done the study and/or the manufacturing of various parts for the Airbus A380 and A400M.

Check and control of Calculation notes and specification, Quality control and Schedule progress follow-up (Documents, design, manufacturing).