

Resume – Bahman Bahmani

Senior Offshore Structural Engineer

Personal Information

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Profile Summary

- **12 years** of experience as Civil and Structural Engineer for 5 different international companies in 4 countries,
- **Canadian resident** (PR holder),
- Currently working as **Senior Structural Integrity Engineer** with 6 years of experience in residential buildings structures (including high rise) and 6 years in industrial and O&G structures,
- Master's Degree from **Polytechnic University of Milan** (Double module **Master of Science degree: Civil Structural Engineering and Risk Mitigation Management**),
- Experienced in **Risk Management** and **Integrity Management** for different assets and infrastructure,
- Experienced team leader for **inspection, site examinations, failure root cause analysis, forensic engineering** for a variety of residential buildings and industrial infrastructures, and Oil & Gas assets (offshore and onshore)
- Experienced in engineering tasks related to **certification** and **insurance** of **assets** (residential buildings, Oil & Gas onshore and offshore structures/assets),
- Experienced in **damage assessment, claims estimation** and **claims settlements** with Insurers and Adjustors (AON, Mathews Daniel, etc.)
- Experienced in **simulation** and **structural analysis** of complicated problems for **design verification** due to **accidental and extreme loads** (**Fire, Blast, Wind, Earthquake**, etc.)
- Highly skilled in Preparing **Scope of Work** and **Project Coordination / Management**, (Planning, Execution, Budgetary and Contractual aspects),
Highly skilled in preparing professional **presentations** Engineering **reports** for Team leader or Management,
- Knowledgeable / certified-user of widely used **structural simulation software**. (SACS, ABAQUS, SESAM, ETABS, SAP2000, SAFE, etc.),
- Completely familiar with **standards/codes** in the field of Structural, Integrity and O&G industry, (**API, AISC, EU, DNV, ACI**, etc.),
- Valuable work experience in major projects with well-known companies, for **design review, risk assessment** and **certification** of assets (NIOC, TUV, BV, RINA, AON, NORDIC, Mathews Daniel, etc.),
- Experienced in collaboration with **different disciplines** (Instrument, Electrical, Process, etc.)
- Experienced in efficient **communication** and **correspondence** with higher management on account of involvement in high profile projects.
- **Trilingual** (Persian, English, Italian), Familiar with French.

Work Experience

- **Senior Structural & Integrity Engineer** at Dragon Oil (Emirates National Oil Company Subsidiary) www.dragonoil.com Dubai and Turkmenistan (*Feb. 2013-Present*) - Rotational job (35 days on – 35 days off)
*Company headquarters is in Dubai and the operations are in Turkmenistan in Caspian Sea.

Note: Since April 2018 I've been promoted to **Acting Asset Integrity Superintendent** besides my original position. This is on probation. Apart from tasks mentioned in the following, I'm in charge of department superintendent/Field Manager responsibilities.

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- **Team leader** of inspection team, responsible to deliver field **inspection report** (including general inspection and NDT), **failure root cause analysis**, inspection test plan (ITP) for different assets.
 - Implementation of **Asset Integrity Management** System (AIMS) for different assets including structures (**Structural Integrity Management** - SIM),
 - **Risk analysis** and **Certification** of onshore and offshore with third parties – **BV, TUV, RINA**, etc.
 - **Forensic Engineering** for asset and facilities **damages / failures**.
 - Preparing **damage claims** including technical reports and financial estimations for **insurance settlements**,
 - Senior advisor for **finance** and **insurance** related matters to Management, including **due diligence**, **premium** and **claims**,
 - Preparing **Scope of Work** including engineering design report / drawings / BOM / method statement for different onshore and offshore projects,
 - **Computational Simulation** (ETABS, SAFE, STAAD, SACS, ABAQUS) and **structural design / adequacy check / verification** for different loads (**in-place, sea state, wind, fire, blast**, etc.)
 - **Project management/coordination** for different engineering and certification jobs,
 - **Design review** of Engineering packages of EPC projects (Offshore platforms / Onshore Facilities)
 - Technical advisor to Contracts dept. for **technical evaluations of tenders**.
- **Structural Design Engineer** at Polimi Structural Engineering Group
www.stru.polimi.it - *Milan-Italy (Oct. 2010 - Jan. 2013)*
 - **Risk Mitigation Management** for different infrastructures (Engineering assessment / Forensic Engineering),
 - **Site surveyor** for inspection and technical assessment,
 - **Simulation, analysis and design** of structures (SAP2000, ETABS, SAFE, etc.)
 - Simulation, analysis and design of structures for particular design cases (Blast, fire, etc.) (ABAQUS)
 - **Structural Designer** at Hyder Consulting (Project basis contract – August & September 2010)
www.hyderconsulting.com - *Dubai – Short-term project based job.*
 - Simulation (ETABS - Strand7) and structural design of high rises (including Burj Khalifa in UAE and Kingdom tower in Saudi Arabia)

Early stage work experience:

- **Civil - Structural Engineer** at OIEC (Oil Industry Engineering & Construction Company)
www.oiecgroup.com – *Tehran & South Pars -Iran (July 2008 – August 2009) (Internship)*
 - **Structural design** of onshore facilities (SAP2000 – SAFE)
 - IFC drawings review, control, cost estimation and approval for construction
- **Civil - Structural Engineer** at Carpira Building Corporation (Part Time)
www.carpira.com – *Tehran - Iran (Sept. 2006-June 2008)*
 - Structural simulation and design of **residential buildings** (SAP2000 – SAFE)
 - Construction supervisor of residential projects (Reinforced Concrete & Steel Structures)

Education

- **MSc. Civil Structural Engineering and Risk Mitigation Management (Double Module Master Degree)**
 - Polytechnic University of Milan (English Language International School)
*Current Member of Structural Engineering Dept. research group
- **BSc. Structural Engineering**
 - Isfahan University of Technology

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● **Advanced Trainings:**

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| ○ SACS software (offshore structures design) | <i>Bentley Systems – Abu Dhabi 2013</i> |
| ○ SACS software Advanced | <i>Bentley Systems – Abu Dhabi 2015</i> |
| ○ Structural Integrity Management of offshore Installations | <i>YF Aisa – Kuala Lumpur 2013</i> |
| ○ SESAM software (DNV – GL) | <i>DNV Dubai & Abu Dhabi 2014</i> |
| ○ ABAQUS / ANSYS | <i>Polytechnic University of Milan 2009</i> |
| ○ SAP2000 / ETABS / SAFE | <i>Isfahan University of Tech. 2007</i> |
| ○ Asset Integrity Management Software (VAIL) | <i>Velosi – Dubai 2017</i> |

Major Technical Skills

● **Structural Engineering codes and standards:**

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|---|--|
| ○ API –RP-2A: Fixed offshore platforms design | ○ API-RP-2SIM: Structural Integrity Management |
| ○ AISC-360: Steel Structures Design (LRFD) | ○ API RP 581: Risk Based Inspection Technology |
| ○ AISC-89/93: Steel Structures Design (WSD) | ○ API-4F: Specification of Drilling Structures |
| ○ ACI-318: Concrete Structures Design | ○ API-579: Fitness For Service |

● **Structural Engineering Software:**

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|----------------------|---------------------|
| ○ SACS (Advanced) | ○ ABAQUS (Advanced) |
| ○ SESAM | ○ ANSYS |
| ○ ETABS (Advanced) | ○ SAFE (Advanced) |
| ○ SAP2000 (Advanced) | ○ STAAD |

● **Other Software:**

- MATLAB,
- Microsoft office (Word, Excel, PowerPoint)

*Skilled in preparing calculation spread sheets, presentations and reports

Honors & Awards

- Member of research group – Structural Engineering Dept. – Polytechnic University of Milan
- Grade “A” member of the Foundation of Iranian Elites - On the account of invention patent
- Snowboarding champion of Lombardia region in Italy,
- University football champion with Milan University team.

Language

- English – Fluent (GRE 800/800, IELTS-7, TOEFL 94/120)
- Italian – Fluent
- French – Intermediate (TCF B2)
- Arabic – Beginner
- Farsi - Native

Availability & Residency

I'm holding both Canadian and Italian permanent residency permits, which allows me to live, work and travel all around Canada and European Union. I currently have a valid contract with Dragon Oil with a notice period of one month. Therefore, I must notify the company one month before I start my new position. My current job is a rotation position (35 days on – 35 days off), during my days-on I travel for work as per request of company, during my days-off my residency is in Montreal, and I'm ready to relocate for a new position.