

Curriculum Vitae

Joakim Sjöberg
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Summary

Joakim Sjöberg graduated at Chalmers University of Technology in 2001 after finished his master thesis at the construction management of Chalmers.

During the 9 years work as consultant Joakim has performed structural analyses of semi-submersibles for the clients Basstech, Inocean, Grenland Group, GVA Consultants, Vetco Aibel, Emtunga and Aker Solutions. Linear/non-linear static/dynamic FE-analyses have been executed using SESAM or ABAQUS. Both shell and solid elements have been used in the analyses. The design calculations have been checked against rules from ABS (The American Bureau of Shipping) and DNV (Det Norske Veritas).

In addition to the work as structural engineer in the offshore industry, Joakim has worked as structural engineer for one year at Volvo Aero with jet engines.

In 2009 Joakim together with an old colleague started the consultant company J2 Offshore Development AB and signed an agreement with Bassoe Technology AB to start work as sub contractor from Jan 2010.

Formal education

1989-1993	Fässbergsgymnasiet Technical Program <i>Upper secondary school level</i>	Mölndal
1995-1997	Chalmers University of Technology Bachelor of Science	Gothenburg
1997-2001	Chalmers University of Technology Master of Science	Gothenburg

Professional background

2001-2001 *SWECO VBB VIAK* *Gothenburg*
Structural engineer

2001 Emtunga AB

Emtunga, Cakerwala

- Structural calculations on living quarter.

Emtunga, Ringhorne

- Structural calculations on living quarter, helideck.

Emtunga, Okioc

- Structural calculations on living quarter, helideck.

Emtunga, Grane

- Global and local structural calculations on living quarter, helideck with details.

Tools: Staad Pro, Mathcad

2001-2004 *CARAN AB* *Gothenburg*
Structural engineer

2001 VOLVO Truck Corp.

- Structural calculations of engine support.

Tools: Ansa, Abaqus

2003 VOLVO and SAAB

- FE-modeling of 5 BiW models intended for crash and structural analysis.

Tools: Ansa, Abaqus

2003 - 2004 SAAB Scania AB

- Structural/resonance frequency calculations of support to radiator.

Tools: Ansa, Nastran

2004 ALSTOM Power Sweden AB

ALSTOM, "EDF"

- Hand and structural calculations (FE) of channel systems due to Eurocode.

Tools: SAP 2000, Mathcad

ALSTOM, "LE Havre"

- Hand and structural calculations (FE) of channel systems due to Eurocode.

Tools: SAP 2000, Mathcad

ALSTOM, "Cordemais"

- Hand and structural calculations (FE) of channel systems due to Eurocode.

Tools: SAP 2000, Mathcad

ALSTOM, "Jönköping"

- Structural calculations of support structure to a silo.

Tools: SAP 2000, Mathcad

2001 - 2004 GVA Consultants (Haliburton)

GVA Consultants, "Thunder Horse PDQ"

- Structural calculations on lower and upper hull
- Buckling checks of bulkheads
- Structural/fatigue calculations on module-, riser supports and castings for high stressed areas.
- Non linear buckling analysis of column shell and stringers.
- Fatigue calculations of cut outs and door openings

Tools: DNV Patran, DNV Sesam, MSC Patran, Prefix

2004-2009 EPSILON HIGHTECH AB Gothenburg

Structural engineer

2004 LKAB AB

- Modification of a bus body. Calculations and check for ultimate and fatigue loads.

Tools: Ansys

2004 ELBO

- Structural calculations of concepts of malm wagons.

Tools: Ansa, Abaqus

2004 - 2005 GVA Consultants, "Balmoral"

- Structural/fatigue calculations of bracings. Detailed shell and solid sub modeling.

Tools: DNV Patran, DNV Sesam

2005 Vetco Aibel AS "Alvheim, FPSO"

- Structural/fatigue calculations of hull and module stools

Tools: Ansa, DNV Sesam

2005 Volvo Aero Corporation "Genx"

- Structural calculations on low pressure compressor for Genx engine for Boeing 787 and Airbus A350.
- Structural calculation of locking lugs (Non linear analysis with contacts)
- Structural calculations of Flange to fandisk (Non linear analysis with contacts and pretensioning)
- Structural calculations of flow path spacer (Non linear analysis with contacts and pretensioning)

Tools: Ansys

2006-2009 Aker Solution

Aker Solution "H6-drilling rig"

- Design and structural/fatigue calculations of crane pedestals and supports.
- Stress Concentration Factor calculations of bulkheads

Tools: DNV Patran, DNV Sesam, Puls, Abaqus

Aker Solution "Skarv FPSO"

- Nonlinear dynamic blast calculations of modules. Global and local design.

Tools: Abaqus Explicit/Implicit, DNV Patran, MSC Patran, DNV Sesam

2009 Basstech

Transocean (GVA4500 rig)

- Global and local analysis. Redesign of problem area, column/pontoon connection, for ultimate and fatigue limit state.

Tools: Prefix, DNV Sesam

2009 Inocean

Chinook - FPSO

- Non linear buckling analyses on bulkheads. (RIKS method)
- Detailed models for analyses of stress concentration factors of module supports with misalignments.

Tools: Ansa, Abaqus, DNV Patran, DNV Sesam

2009 Grenland Group

COSL – Production rig

- Design and check of crane pedestal and pedestal support for fatigue and ultimate limit state.
- Detailed shell and solid models for stress concentration factor analyses.
- Analyze of column/pontoon corner in fatigue limit state (sub model technique).
- Non linear buckling analysis of column top with misalignments. (RIKS method)

Tools: MSC Patran, Abaqus, DNV Patran, DNV Sesam

2009 Emtunga Leirvik

Control room LPG2

- Blast calculations with design check towards BSK09, DEP 34.17.10.33 and StBK-N5.

Tools: DNV Patran, DNV Sesam

2010 FMC

- Analyse of a Test Cap Assy, F/ THRT, ADAPTER, 7IN-5K with non-linear material and solid elements. Checked according to ISO 3628-7 and ASME.

Tools: Ansa, Abaqus

2010 Petainer

- Calculation and design of a bottle cap. Pressure loaded solid model with contacts, springs and non-linear material with creep.

Tools: Ansa, Abaqus

J2 Offshore Development

Supplement education

2001	MSC Patran/Nastran	Gothenburg
2003	Leadership	Gothenburg
2006	DNV Fatigue Course	Oslo
2008	DNV Hydrodynamic	Oslo

Miscellaneous

Driving license

- Class *B*****

Language

- Swedish – mother tongue
- English – good
- French – basic

Specification of analysis instruments

- DNV Software: SESAM, PATRAN, PULS, STIPLA, GENIE, WADAM
- ABAQUS IMPLICIT/EXPLICIT, NASTRAN, ANSA, METAPOST, ANSYS
- STAAD
- AUTOCAD (beginner), PDMS (beginner)
- MATLAB, MATHCAD, MS-OFFICE, PROARC