

## Curriculum Vitae – Bjørn Trevland

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### **Position: Design Engineer (Mechanics), TECHNI / BT-Engineering**

*Year of birth:* 1959

*Marital status:* Married, three grown children.

*Education:*

1972/75	G.C.E.
1992	Craftsmanship exam, vulcanisation
2000/07	Several welding certificates NS-EN 287-1
2007/09	Engineering Technology School

*Supplementary education:*

1975-	TIG Weld Certificates, several dimensions, Stainless Steel, NS-EN 287-1 MIG/MAG Weld Certificates, several dimensions, Stainless Steel, NS-EN 287-1 TIG Weld Certificates, several dimensions, Carbon Steel, NS-EN 287-1 MIG/MAG Weld Certificates, several dimensions, Carbon Steel, NS-EN 287-1 "Hot Working" Certification Truck certifications; T1, T2 and T4 Crane operator Certification G8 truck cranes Crane operator Certification G4 bridge and overhead cranes Lift Certification Working equipment acc. to § 555 Norwegian EHS regulations Certification tyre repairing, vulcanisation Car, Class A BE C1E
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*Languages:* English, Native Norwegian

*Key qualifications:*

- Product development
- Structural/Mechanical Design, several 3D platforms
- Piping & Mechanical Layout
- Practical experience from production, technical plumbing, pipe welding and assembling.
- Conceptual and detail drawings, 3D / 2D

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### *Computer tools experience:*

- SolidWorks 3D software
- SolidWorks PDM Professional
- DraftSight 2D software
- Autodesk Inventor 3D software
- Autodesk Vault Professional
- Familiar with AutoCAD Mechanics
- Familiar with AutoCAD Electrical
- Familiar with Autodesk 3D Studio Max
- Siemens Teamcenter PLM document management
- Familiar with Microstation
- MS-Office tools since 1996
- MS-Project planning tools since 2007
- SIMATIC STEP 7, (PLS Simulation Software)
- Windows operating systems since 1996
- MS Frontpage (Web-design) since 1997
- MS Publisher (DT-publishing)
- Adobe Photoshop
- Adobe InDesign
- Adobe Acrobat
- Joomla! CMS system since 2005
- Virtuemart web shop solutions
- osCommerce web shop solutions
- Has been working with; xml, php, asp, html, css og MySql

### *Employment:*

22-dd	BT-Engineering AS, mechanical design, product development (owner)
16-dd	TECHNI AS, mechanical design (consultant from 2020)
15-20	Sea Solutions AS, product development (owner)
15-16	MT-Technology AS, mechanical design
13-15	Aker Solutions, Subsea, mechanical and some graphical design
12-13	Subsea House AS, mechanical design
11-12	SSH Engineering AS, mechanical design
09-11	Tech4you AS, mechanical design
96-07	ENWA PMI AS, welding, technical plumbing, mounting
90-96	Bjørns Alt Mulig service, carpenter, building and mounting of boat harbors for pleasure crafts
83-90	Elkem AS Formek, milling, drilling, lathing work
78-83	Elkem AS Stål & Tau, welding

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### *Project work:*

2023 -	Techni AS	Design, production and documentation of Railing Solution for VeRo Kongsberg Discovery / Jotun.
2023	Techni AS	Design and production of Launch & Recovery unit, Railing Solution for VeRo Kongsberg Maritime / Jotun.
2023	GreenCap Solutions AS	Supervising during start-up of process plant, carbon harvesting.
2022	Techni AS	Design of surface link cabinet for Hugin, MaRo Kongsberg Maritime.
2022	Techni AS	Design and manufacturing of storing and transportation solutions for Hull Skater, VeRo Kongsberg Maritime / Jotun AS
2021	Techni AS	Design and manufacturing of storing solutions for Hull Skater, VeRo Kongsberg Maritime / Jotun AS
2020	Techni AS	Design of automatic launch system for Hull Skater, VeRo Kongsberg Maritime / Jotun AS
2019	MT Solutions AS	Design of test-rig, high pressure de-sander for oil wells, BRI
2019	MT Solutions AS	Design of several lifting equipment (75 – 100 Tons) for subsea equipment, Ocean Installer (Havfram)
2018	GreenCap Solutions AS	Design and testing of equipment for harvest and storing of CO2
2018	TEGma AS	Design new pump free test rig and full-scale heat exchanger system for thermo electric energy harvesting
2018	TEGma AS	Design and integration of pilot project, heat exchangers for thermo electric energy harvesting on board Color Magic ferry.
2017	ENWA AS	Conceptual study, new generation Enwamatic water conditioner.
2017	Sea Solutions AS	Design, patenting and manufacturing follow up of alarm system for fall detection when working in height.
2017	Sea Solutions AS	MSG Deice, design of complete piping arrangement for de-icing and washing of airplanes.
2016	Hawle Water technology	No Dig Project, design push & pull unit, rotation unit plus several minor sub units.
2016	Techni internal	Implementation of 3D CAD PDM management system, general work with templates and setup of system. Writing procedures for system.
2016	Statoil	Design of release system, B – annulus monitoring system.
2015	MT-Technology, Schlumberger, Johan Sverdrup	3D modelling, design, conceptual development, drawings, Produce Water Package

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2015	Aker Solutions Total Kaombo field	3D modelling, design, conceptual development, technical writing, drawings, VTRT Transportation Basket (2.7-3) 3D modelling, design, conceptual development, technical writing, drawings, VTRT Transportation Basket (2.7-3) 3D modelling, design, technical writing, drawings, bumper bars, VTRT (Vessel Deployable Tree Running Tool)
2015	Aker Solutions Total MOHO field	3D modelling, conceptual development, design, technical writing, graphical design, drawings, SERS (Subsea Emergency Response System) Well Kill Module (bullheading)
2012-14	Aker Solutions Total Dalia field	3D modelling, design, mechanical completion, technical writing, drawings, SERS (Subsea Emergency Response System) Well Kill Module
2013	Subsea House AS AKSO/Total MOHO	3D modeling, valve block XMT Moho
2011-13	SSH Engineering Aker Solutions	3D modeling, consulting qualification of Stub Acme threaded connectors, Goliat riser string acc. to ISO 13628-7
	SSH Engineering Aker Solutions	3D modeling, construction and design of Umbilical Disconnect System for Vigdis
	SSH Engineering Aker Solutions	3D modeling, construction and design of Umbilical Disconnect Frame for Goliat
	SSH Engineering Aker Solutions	3D modeling, construction and design of several components connected to work over systems for Vigdis field
	SSH Engineering DONG	3D modeling, construction and design of special disconnect tool for subsea pipeline, Stine field
2011	Tech4you AS Spirax Sarco AS	3D modeling, construction, design and fabrication support, large hot water skid for BW Offshore
2010	Tech4you AS MI Swaco AS	3D modeling, construction and design, Conceptual Layout, CFU unit for Gudrun
2010	Tech4you AS	Construction design and building, Test Unit; Water4emergency, whom produces fresh water from sea water with pure solar energi
2010	Tech4you AS MI Swaco AS	3D modeling, construction and design, Conceptual Layout, CFU unit, China
2010	Tech4you AS MI Swaco AS	3D modeling, construction and design, Conceptual Layout and Final Engineering CFU unit for Talisman, Montrose

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2010	Tech4you AS Sargas AS	3D modeling and visualization, Co2 removal
2010	Tech4you AS	3D modeling, construction and design, Conceptual Layout, CFU unit for internal testing
2010	Tech4you AS Extenso AS	3D modeling, construction and design, Material Handling unit for LKAB Kiruna
2010	Tech4you AS Steni AS	Re-design of conveyor rollers, fabrication drawings.
2010	Tech4you AS KHIO Kunsthøgskolen i Oslo	3D modeling, construction, Technical Advising and design, Orchestra lifting platform for their main stage
2009	Tech4you AS	3D modeling, construction and design, Conceptual Layout and Final Engineering CFU unit for PsiPro AS, customer; Westfalia, Alvheim
2009	Tech4you AS	Technical Advising, Site survey, validation of existing pipe systems, and pipe support/pipe penetration methods for penetrating concrete safety barrier around petroleum storage plant tank farm. Reports, dimension studies, pipe enterprise detailed calculations. Customer; ÅF Consult, Shell Larsgaarden Aalesund
2009	Tech4you AS	Conceptual Layout sketches and GA drawings, several CFU units. Customer; MI Epcon AS
2010	Telemark Engineering Technology School	Education of full-time students, Technical Documentation, DAK, Autocad 2D and Inventor 3D Education of part-time and net-study students, Technical Documentation, DAK, Autocad 2D and Inventor 3D
96-07	PMI Pindsle AS	Technical Plumber, welder, mounting of district heating/cooling plants. Building of small and medium size water treatment plants, building of biogas energy plants
92-96	Independent	Technical Plumber at several companies, mounting of ventilation plants. Salesman and repairer of tires, vulcanization. Machining, Lathe- operation, Carpenter and tire repairer
87-92	Lolland & Co AS	Salesman and repairer of tires, vulcanization. Worked for a short period as supervisor
76-87	Formek AS	Machining, Lathe- operation, welding