# Jake Hamdan, P.Eng;

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## HIGHLIGHTS OF QUALIFICATIONS

- **Professional Engineer:** over 18 years of working experience in the oil and gas industry designing full rig packages and managing engineers.
- **Registered Professional Engineer in the Provinces of Alberta & British Columbia**
- **Expert knowledge in American Petroleum (API) Standards: API 4F, 4G, 8C,8B, 7K, 16D, 6A**
- **Expert knowledge with engineering & drawing software**: Mechanical/Structural drawings/Analysis/Simulations using AutoCAD, solidworks , Inventor, Ansys, SAFI.
- **Strong managerial Skills:** 14 years Experience in managing, mentoring & supervising draftsmen, technologists and engineers.
- **Expert Knowledge in Sour Gas pipe and equipment design** (NACE and EUB DIR 36)
- **Expert Knowledge in High Pressure Piping design** including wall thickness and diameter selection for pipes and fittings including welding calculations and requirements. (ASME B31.3)
- **Pressure Vessel Design (ASME Section VIII, Div. 1)** including joints and plate thickness as per UW-11
- **Tank Design and Oil Storage** (API 650/API 12F/TC44) and tanks data sheets
- **Highly Proficient in Computer Programs-** Able to effectively use Microsoft office packages (such as word, excel, power point, projects and primavera)
- **Results Oriented**: Demonstrated capacity to work as part of a team with strong commitment to achieving company's goal
- **Adaptable and fast paced learner**: Strong technical problem solving and trouble shooting skills, self-motivated and fast paced learner

## EDUCATION

B.Eng Mechanical Engineering
Specialization : Aerospace & Vehicle Systems
**Concordia University, Montreal QC.** **1999- 2003**

## PROFESSIONAL WORK HISTORY

**Control Systems Engineer**
DRDC Canada, Montreal, QC 2003-2004

- Worked with a team of Engineers to develop a UAV for use in reconnaissance and search & rescue missions.
- Help develop algorithm for vision control system using receding horizon control methods.
- Was responsible for UAV mechanical maintenance, repairs and custom part design and manufacturing.

**Design Engineer, EIT**
Mastco Derrick Services, Nisku AB. 2004 – 2007

- Prepared drawings for Various Oil field equipment (Mudtanks, Doghouses, Catwalks, water tanks)
- Preformed stress analysis and welding calculations for various Rig parts
- Captured drawings red lines and revised drawings.
- Responsible for Mud System design and drafting.
- Designed overhead Trolley and Gantry Cranes.
- Created engineering reports and proposals for project managers.

**Senior Design Engineer**
Victory Rig Equipment, Nisku, AB. Canada 2007 – 2009

- Responsible for the design of Drilling Rig Masts/Derricks & Substructures in accordance with API standard 4F.
- Designed Overhead and Travelling Equipment such as Travelling Blocks, TopDrive Components, Bails, torque tracks & Guide Rails in accordance with API 8C
- Designed Drilling Rig Moving Systems.
- Mentored EIT's and Technologists.
- Performed API Q1 Design Reviews for Oil Field Equipment

**Engineering Manager /Director of Engineering** 2010-2018
Trinidad Design & Manufacturing, Nisku AB, Canada.

- Oversee Engineering department of 40+ personnel who were responsible for complete rig pkg designs and manufacturing.
- Developed and Implemented API Q1 compliant Department Processes.
- Estimated project lead-times and required department resources.
- Was responsible for projects planning and resource scheduling.
- Communicated with our clients, team members and stakeholders on an ongoing basis with schedule and progress updates
- Ensured equipment was being designed in accordance with all relevant codes and standards and as per contractual requirements.

**Vice President of Engineering** 2018-Present
Ensign Drilling Inc, Nisku AB, Canada

- Work with the company top executives to develop plans and goals for improving existing equipment and new product development;
- Administer an assortment of activities including new products to improve time frames on project completion.
- Supervise the designers that develop API certified machinery, products, systems, and processes.
- Direct and coordinate operations, testing, quality assurance, and production and maintenance;
- Responsible for the delivery of engineered drawings and operating instructions of all new equipment designs.
- Responsible for the planning, execution and technical support of all designs and equipment.
- Responsible for hiring and department budget.
- Perform personnel reviews.

**PROFESSIONAL MEMBERSHIPS**

Professional Engineer ---------- Association of Professional Engineers, and Geoscientists of Alberta (APEGGA) 2008- Present

Professional Engineer ---------- Association of Professional Engineers, and Geoscientists of British Columbia (APEGBC) 2010- Present

American Petroleum Institute (API) 4F and 8C Technical Sub Committee member 2016- Present

Member----------American Society of Mechanical Engineers 2012-Present

**REFERENCES AVAILABLE UPON REQUEST**