

# **RESUME OF QUALIFICATION AND EXPERIENCE**

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## **EMPLOYMENT HISTORY**

**2011 – Present**     **ALLAN R. NELSON ENGINEERING (1997) INC., Edmonton, Alberta**  
**Project Engineer**

- Project Management:
  - Ensure smooth information flow and facilitate meetings.
  - Prepare project plans and milestone documentation.
  - Prepare Gantt charts and progress updates.
  - Work closely with team members to compile design binder for projects.
- Accident Investigation and Appraisal:
  - On-site investigation and data collection.
  - Identify root cause and provide engineering recommendations.
  - Evaluate damaged equipment and analyze repair or replacement cost.
- Engineering:
  - Engineering design and analysis on oilfield structures in accordance to regulatory requirements.
  - FEA analysis using S-Frame and ANSYS.
  - Drafting using SolidWorks and AutoCAD.
  - Inspection and certification of oilfield equipment in accordance with CAODC recommended practices.

**2007 – 2011**     **HYDUKE DRILLING SOLUTIONS, Nisku, Alberta**  
**Project Manager**

- Project Management:
  - Prepare project updates and communicate with stake holders.
  - Organize and host production meeting: draft meeting agendas and minutes; track and follow up on action items.
  - Improve work production flow: Implement project management methods into work procedures.
  - Communicate with manufacturing team and keep procedures up to date.
  - Cost analysis on on-going and completed projects.
  - Improve communication between different parties and divisions.
  - Lead manufacturing team consist of welders and draftsman.
  - Orient and train new employees.
- Estimating/Procurement:
  - Review RFQ and select appropriate vendor and buy out products.
  - Prepare quotation including proposal and marketing layouts drawings.
- Project Planning:
  - Plan and schedule project with shop foreman and management.
  - Create project Gantt charts.
- Documentation:
  - Create work flow charts to identify manufacturing steps.

- Prepare and standardize documentation: rig up procedures, commissioning checklists, inventory data book and operation procedure manuals.
- Drawing distribution
- Quality Assurance:
  - Ensure work procedures and documentation comply with quality management system.
  - Familiarity with quality system such as API Q1 and 4F.
  - Review and propose improvement to quality control system.
  - Perform internal audit to quality management system; identify deficiencies and recommend correction actions.
  - Product quality control: involve in QA acceptance process.
- Engineering:
  - Review design binders.
  - Review and stamp construction drawings prior to release.
  - Communicate with design engineers, QA, shop personnel on technical questions
- Assist top management:
  - Create organization chart; identify role and responsibility for key personnel.
  - Participate on-going lean manufacturing process.
  - Participate management review.
  - Provide necessary information for corporate controllers.
- Customer Relations:
  - Maintain excellent relationship with customers.
  - Provide customer support and look after their needs.
  - Collect and analyze customer feedback for future project considerations.

2003 – 2006

**T&T Inspections & Engineering, Nisku, Alberta**  
**Mechanical Engineer**

- Inspections and Certification:
  - Scope of NDE inspections include drilling and handling equipment such as traveling blocks, bail links, elevators, etc.
  - Inspection: visual inspection and on-site measurements.
  - Review NDE reports, perform calculations and FEA.
  - Provide repair procedures.
  - Review re-inspection report/load test chart/stress relief chart.
  - Issue engineering certification.
  - Assist senior engineers.
  - Travelled overseas to perform Level IV inspection.
- Design and Engineering:
  - Complete design and engineering projects using Inventor, SolidWorks and AutoCAD.
  - Prepare marketing drawings and construction drawings.
  - Perform finite element analysis using CosmoWorks and Inventor ANSYS.
  - Familiar with standards such as CSA B620/B626, API 4F.
  - Participate in Transport Canada TC-406/TC-44 fuel tank designs.
  - Project management.
  - Work closely with quality control and shop foremen to understand their needs in production.
  - Document control: Review, approve and issue drawings for construction.
  - Revised working procedures to improve work flow and successfully reduced rework.
  - Improve designs: reduce production cost
  - Create inventory book and catalogue for manufactured products.
  - Good understanding of drilling equipment and process.

**EDUCATION**

B.Sc. in Mechanical Engineering, University of Alberta, Edmonton, Alberta, 2002  
Project Management Certificate, NAIT, Edmonton, Alberta, 2008