

**Ganga D. Deka, P.Eng.**

**Mechanical Engineer**

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Tel : (M) : 403-966-3180

## **Resume**

### **SUMMARY**

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Over 30+ years of engineering experience with EPC and Oil and Gas Owner Operating Companies within which:

15+ years of experience with Owner Companies providing mechanical engineering and technical support to day-to-day operation, maintenance, annual turnarounds, CAPEX and OPEX (Upgrades and Reliability) projects in Refinery, Oil and Gas processing facility, LNG and Captive Power Plant.

15+ years of EPC/Project Engineering experience in Pipeline, Oil and Gas processing facility projects. Delivered all aspects of mechanical/piping engineering solutions for the entire project lifecycle from FEED to Detailed Engineering to Construction support.

Versatile experience as Engineering Project Management and Technical Lead for large capital projects.

Led and supervised up to 15 multi-discipline engineers and staff to provide day-to-day maintenance, troubleshooting and technical services to large gas processing facility LNG Plant in Qatar.

Provided leadership for implementing CAPEX and OPEX (Reliability, upgrades) projects.

Implemented MAXIMO to 200 Refinery equipment, and Exxon Mobil's PESTRA (Pressure Equipment Strategy) - a RCM tool to 300 process equipment in a large LNG Plant.

Sound knowledge of Risk Assessment, PHA, Constructability and 3D Model Design Reviews.

Sound knowledge of Stress Analysis, FEA, Code evaluations, pipeline/piping thickness calculation and Material Specification, FFS (Fitness-For Service).

Engineer of Record for review, approval and stamping of mechanical deliverables (drawings/plans/ISO's/LDTs/stress reports, calculations etc.).

Engineer of Record for Design Registration with ABSA (Alberta Boilers safety Association). Knowledge of Alberta Boiler and Pressure vessel Safety Code, PESR (49/2006) and CSA B51.

Conversant with API Equipment Standards, TEMA-R, ASM/ASTM materials, Design codes such as CSA Z662, ASME B31.4, ASME 31.8, ASME B31.1, ASME 31.3, ASME BPVC Section VIII Div 1, CSA B51, NFPA, NACE, API 579 and various major Oil and Gas Industry Codes, Standards, best practice and ABSA, AER (Alberta Energy Regulator), NEB (National Energy Board) regulations, USDOT Title 49 CFR Part 192/195.

Strong interpersonal and communication skill. Member of Toastmasters Club. Was selected as "Best Club President" in Area 22, District 42.

Valid Class 5 Driver's License.

## EXPERIENCE

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### **2016 – Current      Director- Technical Services**

Director -Technical Services – Veracious Canada Inc. Toronto, Canada.

Technical Trainer for the following ASME Courses:

ASME B31.3 -Process Piping, ASME Sec VIII Div 1 -Pressure Vessel Design, ASME PCC-2 – Repair of Pressure Equipment and Pressure Piping, API 579/ASME FFS-1- Fitness-For-Service.g

Basic Engineering for Reliability, Facility and Plant Engineers

### **2013 – 2015      Facilities Head, UniversalPegasus International (UPI) Canada -EPC**

Responsible for comprehensive engineering design and technical support including design registration to Pipeline and Facilities for various Clients.

Provided engineering study and technical solutions to pipeline and facility operating/reliability and safety issues to support CAPEX and OPEX projects in compliance with regulatory safety codes such as ABSA, AER.

Review project specification, carry out FIT-GAP Analysis, Amend/write new project specifications, as required.

Responsible for review and approve all Mechanical/Piping Deliverables such as plans, drawings, Line List, alignment sheets, reports, and calculations.

Participated in multi-discipline project reviews – Squad-Checks, HAZOP, Design, Constructability.

Responsible for mechanical discipline Cost and schedule management.

Responsible for Material Requisitions, Technical Bid Evaluations, ITP approval, Vendor recommendations and Vendor Drawings and Document review and approval.

Supervised and mentored young discipline engineers.

### **2012 – 2013      Project Manager/Lead Mechanical Engineer, Flour Canada -EPC**

Provided comprehensive engineering services for OPEX and CAPEX projects Enbridge Liquid Pipeline Projects up to size of \$100 Million.

Provided study and technical solution to operating/reliability/safety issues with Enbridge's Assets.

Responsible and accountable for all mechanical engineering/project deliverables.

Engineer of Record for review and approval of facility plans drawings, reports, and calculations.

Participated in multi-discipline project reviews – Squad-Checks, HAZOPS, Design, Constructability.

Responsible for mechanical discipline Cost and schedule management.

Responsible for Material Requisitions, Technical Bid Evaluations, QA/QC approval, Vendor recommendations and Vendor Drawings and Document review and approval.

Supported TIC cost estimation to AACE Classes.

Trained, mentored junior engineers.

**2007 – 2012                      Project Engineer/Lead Mechanical Engineer, WorleyParsons Canada -EPC**

Provided comprehensive engineering services, project management and technical support to OPEX and CAPEX Projects for Suncor Energy, Shell Canada and Enbridge Liquid Pipelines.

Led development of project Scope, DBM, EDS, Plan, Schedule, AACE level cost estimates,

Led detailed engineering and construction support for Major and OPEX projects.

Accountable for all mechanical deliverables including drawings/plans, ISO drawings, LDTs, Material Specifications, Material Requisitions, Stress Analysis, Calculations, EWP and CWP packages and other project deliverables.

Part of multi-discipline team for 3D model design reviews, PHA, Risk assessment and Constructability reviews.

Reviewed vendor QA/QC plans, bids, drawings and provided technical recommendations.

Engineer of Record for design registrations with ABSA.

**2000 – 2006                      Maintenance Superintendent, Qatargas Operating Company (QATARGAS), Qatar –Natural Gas Processing & LNG Plant.**

Provided day to day maintenance and engineering leadership to a multi-discipline team for maintaining large natural gas production facility and downstream LNG plant,

Provided leadership for execution of operating and capital projects upto \$100 Million,

Reviewed/approved scope for equipment upgrades, plant modification to mitigate personal and plant safety, HSE and regulatory compliance through Company's MOC Process.

Implemented ExxonMobil's PESTRA (Equipment Strategy), a RCM based tool to optimize maintenance management to 300 gas processing and LNG Plant equipment.

Reviewed contractor engineering bids, drawings and documents, execution plans, work scopes, schedules and manpower loading. Managed Contracts.

Led, developed and mentored a team of 15 multi-discipline engineers, planner, scheduler and cost controller. Set KPIs and performed annual performance reporting.

Part of leadership for planning and maintenance of Integrity Management Program (IMP) throughout equipment lifecycle.

**1995 - 2000                      Mechanical Engineer, Zakum Development Company (ZADCO), United Arab Emirates –Oil & Gas processing facility**

Provided day to day operation, maintenance and engineering support to refinery and oil and gas processing facility.

Prepared scope for equipment upgrades, plant modifications and revamps.

Part of team for implementation of IBM's MAXIMO to 200 refinery equipment.

Provided leadership for execution of operating and capital projects upto \$100 Million,

Reviewed contractor engineering bids, drawings and documents, execution plans, work

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## **EDUCATION**

Bachelors Degree in Mechanical Engineering

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## **CITIZENSHIP**

Canadian

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## **REGISTRATIONS/AFFILIATIONS**

Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGA), Canada.

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## **SPECIFIC TECHNICAL EXPERTISE/SPECIALIST COURSES**

Leadership Management

Project Management

ASME B31.1 / B31.3 / PCC-2/CSA Z662/BPVC Section VIII Div 1/CSA B51/ API 579

COADE Caesar II Stress Analysis, MicroStation, MS Office 365

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## **REFERENCES:**

1. Joel Regenstreif - Director Calgary location, Rally's Engineering. Tel: 587-330-1611.

Email: [Joel.Regenstreif@rallyeng.com](mailto:Joel.Regenstreif@rallyeng.com)

2. Nathan Wilbourn. Director, Business Development- Worley Tel: 403-542-0037

Email: . [Nathan.wilbourn@worley.com](mailto:Nathan.wilbourn@worley.com)

3. Yuraima Saud. Manager with TC Energy. Tel: 403-830-1997

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