

RESUME

BHARAT BATRA, P.E.

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EDUCATION:

M.S. - Computer Science: October 1984

New Jersey Institute Of Technology, Newark, NJ

M.S. - Mechanical Engineering: October 1983 (G.P.A.=4.0/4.0)

New Jersey Institute Of Technology, Newark, NJ

Diploma in Business Management: November 1980

R.P. Institute of Communication & Management, Bombay, India

B.S. - Mechanical Engineering: May 1978

Indian Institute Of Technology, Kanpur, India

EXPERIENCE:

*Mar. 1998 to
Present*

PRESSURE EQUIPMENT ENGINEERING SERVICES, Missouri City, TX

President

- *Design, Analysis, Re-rating and **Fitness-for-Service evaluations** of Pressure Vessels, Heat Exchangers, Storage Tanks and Piping for Petroleum and Petrochemical companies.*
- ***Finite Elements Analysis** (using **ANSYS** software) of Pressure vessels, pressure vessel components and other mechanical components.*
- ***Mechanical Integrity evaluations** for Pressure Vessels, Heat exchangers and Storage Tanks.*
- *Calculations / Recommendations for suitability of vessels for **in-situ PWHT** (Global & Local).*

*Jan. 1997 to
Feb. 1998*

RAYTHEON ENGINEERS & CONSTRUCTORS, Houston, TX

Consulting Engineer

- *Design, Analysis and re-rating of Pressure Vessels for **FCCU revamp**.*
- *Design & Engineering Analysis of Pressure vessels for **HDPE plant**.*
- ***Finite Elements Analysis** (using **ANSYS** software) of Pressure vessel components.*

*Oct. 1989 to
Jan. 1997*

BECHTEL CORPORATION, Houston, TX

Consulting Engineer

- *Design and procurement of pressure vessels for **cryogenic** service for **Liquefied Natural Gas** Plant for Atlantic LNG, Trinidad (**May 1996 - Jan. 1997**).*

*Worked as **Consulting Engineer** in Pressure Equipment Group at **Shell Oil Company, Deer Park, TX** (**Oct. 1991 - April 1996**):*

- *Design and analysis of **Pressure Vessels** (Tall Columns, Vertical Pressure Vessels, Horizontal Pressure Vessels, Spherical Vessels, Reactors etc.) based on ASME Boiler & Pressure Vessel Code, **Section VIII, Div.-1 and Div.-2**.*
- *Analysis of **Power Boiler Components** per ASME Boiler & Pressure Vessel Code, **Section-I**.*
- *Mechanical design and analysis of **Heat Exchangers** based on **TEMA**.*
- *Design and analysis of **Storage tanks** based on **API-650** and low pressure storage tanks based on **API-620**.*
- ***Re-rating** and Calculation of **minimum thicknesses** for existing pressure vessels, heat exchangers and storage tanks to obtain **remaining safe and useful life** out of equipment.*
- *Calculations for **Repair/Alteration** of existing Pressure Vessels and Tanks per **API-510, National Board Inspection Code** and **API-653**.*
- *Evaluation of **cracks and flaws** using **fracture mechanics**.*
- *Design of **structural systems and supports** for continued operation of vessels.*
- *Engineering support for **Piping stress analysis** using **CAESAR-II**.*
- *Validation of **COMPRESS** - Pressure Vessel Design software on an ongoing basis.*
- *Calculations for suitability of vessels for **in-situ PWHT** and **hydrostatic testing**.*