

CURRICULUM VITAE



A: PERSONAL INFORMATION

NAME: LALCHANDANI MUKESH CHANDULAL DATE OF BIRTH: 19/01/1976

NATIONALITY: INDIAN MARITAL STATUS: MARRIED

PASSPORT : Available

PRESENT STATUS: Working at INGERSOLL-RAND INDIA LIMITED, Ahmedabad.
As Sr. Executive Engineering.

OBJECTIVE: To provide solutions for business & technology growth using Design Capabilities, Creativities and Continual Improvement..

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B: EDUCATIONAL BACKGROUND

COURSE	UNIVERSITY	DURATION	GRADES
Master of Technology in Machine Design	Indian Institute of Technology, Roorkee	2000-2001	8.85/10 CGPA (Distinction)
BACHELOR OF MECHANICAL ENGINEERING	SOUTH GUJARAT S.V.R.C.E.T-SURAT	1996-2000	1st CLASS DISTINCTION (78.01%)
DIPLOMA IN MECHANICAL ENGINEERING	TECHNICAL EDUCATION BOARD-GUJ. T.F.G.P.-ADIPUR	1991-1994	1st CLASS DISTINCTION (82.65%) 2 nd in Board

QUALIFIED IN GATE - 2000 WITH 95.86 percentile.

Major Subjects in Post Graduation.

FEM, CAD, Advanced Design, Modelling and Simulation.

Minor project - Software for Pressure Vessel Design as per ASME Code.

Dissertation - Stress Analysis for single and multiple interacting nozzles on a cylindrical pressure vessel by FEM using ANSYS. Developed graphs that can be readily used to determine stress Intensification.

WORK DONE DURING DISSERTATION

Stress analysis between nozzle to shell intersection is found out using FE Analysis. To solve this analysis 3-D finite element analysis is carried out using ANSYS with Shell elements. Some other problems attended using FE Analysis on ANSYS are as below:

1. Stress analysis around hole in finite plate.
2. Stress analysis around hole in cylinder.
3. Stress analysis around nozzle in cylinder.
4. Stress analysis around closely spaced multiple opening / nozzles.
5. Stress analysis and comparison between different method of reinforcement.

C: WORK EXPERIENCE

NAME OF COMPANY	Position	DURATION
A:) INGERSOLL-RAND INDIA LIMITED,		
	Sr. Executive (Engineering)	AUG 03 to Contd.

Work handled (A summary) :

- Package design for Compressor (Small reciprocating)
- Bare compressor design / up gradation. Completed redesign of 1000 psi compressor to 1500 psi.
- Preparing design specification for new designs.
- Conducted Finite Element Analysis for Compressor cylinders.

B:) LARSEN & TOUBRO LIMITED, e-Engineering Solution

Executive (FEM) APR 03 to AUG 03

Work handled (A summary) :

- Conducted Finite Element Analysis for Simplex Valve Design.
- Conducted Finite Element Analysis in Pressure Vessels for HOT BOX
- Worked on ANSYS/LS-DYNA for Non-Linear Dynamic Analysis.
- Worked on I-DEAS for Simulation (Finite Element Analysis).

C:) LARSEN & TOUBRO LIMITED Project Engineer (DESIGN) Jan 02 to APR 03

Work handled (A summary) :

- Design of Pressure Vessel & other structure as per ASME, AISC, BS5500 etc codes.
- Design of vessel for Wind & Seismic requirement as per IS 875, ASCE 7-95, UBC, IS 1893 etc.
- Preparation of Project (Engineering) schedule.
- Preparing special requirement for material (from quality point of view), List of Critical Items for project and giving the request in BaaN.
- Co-ordination with shops for technical queries.
- Detailing of vessel and other components.
- Follow up with other departments for the project activities.
- Preparing 3-D model for the job on IDEAS / AutoCAD wherever required.
- Co-ordination with customer/consultant for getting approval on the design/details.

- Issue of relevant specifications / information to the shops / other departments.
- Conducting Kick off meeting/ Progress Review Meeting. Preparing Important Procedures required in the critical fabrication in consultation with shops.

D:) LARSEN & TOUBRO LIMITED Asst Design/Project Engg. Dec' 94 to Jul '00

Work handled :

- Preparation of detail drawing for pressure vessel.
- Preparation of critical requirement for materials.
- Coordination with other departments for project activities.
- Preparation of 3-D on IDEAS models for special projects.
- Getting approval on detail drawings form Customer.
- Preparation of AutoLisp Program for atomization of drawings.

D:COMPUTER LITERACY

- ✓ Microsoft excel / word / PowerPoint.
- ✓ SDRC's I-DEAS (3-d modeling & assembly)
- ✓ AutoCAD , AutoLISP (AutoCAD programming Language)
- ✓ Programming using Visual Basic.
- ✓ ANSYS 7.0 for FE Analysis
- ✓ Pro/Engineer Wildfire - 3D Modeling

DEVELOPMENT PROGRAMMES ATTENDED

1. Value Analysis & Value Engineering
2. Quality Improvement Projects (Juran's methodology).
3. Self-development programs (Firo-B , Johari windows ,etc.)
4. Creativity, communication development programs.

Achievements:

1. Developed Visual Basic programs for Pressure Vessel design based on ASME Code Sec. VIII-Div 1 / Div 2.
2. Completed successful design of 20+ columns/vessels for customers like Fluor Daniel, EIL, IOCL, BPCL, L&T Chiyoda.
3. Made AutoLisp Programming for various pressure vessel drawings, which helped in saving time (e.g. Program for surface layout of vessel - this has saved time from 3 days to just 2 hours for a critical equipment).

- Mukesh Lalchandani