

CURRICULUM VITAE

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LALIT S CHAUDHARI

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Professional Objective:

I would like to be a part of organization where I can explore my potential to its fullest & work with a diverse group of people by which I can gain knowledge that will add to my career.

Personal Details:

Date of Birth: 12th SEPTEMBER 1981.
Languages Known: English, Marathi and Hindi.
Marital Status: Single.
Sex: Male.

Educational Qualification:

EXAM. PASSED	INSTITUTE/BOARD /UNIVERSITY	YEAR OF PASSING	PERCENTAGE SCORED /CPI	CLASS OBTAINED
M. Tech (pursuing)	IIT Bombay	July 2007	9.16 (including project)	-----
B.E (MECHANICAL ENGINEERING).	Veermata Jijabai Technological Institute (V.J.T.I.) (Mumbai University)	June-2003	77.28%	DISTINCTION (2 nd in Mumbai university.)
DIPLOMA IN MECHANICAL ENGINEERING	Shreeram Polytechnic, Airoli. (MSBTE)	May-2000	82.79%	DISTINCTION (8 th in Maharashtra.)
S.S.C	Shreeram Vidyalaya, Airoli (MSBSHSE)	Mar-1997	85.33%	DISTINCTION (2 nd in Navi Mumbai)

M Tech Project: (Jan 2006- cont.)

Experimental Investigation of Flow through Porous Media: For Enhanced Oil Recovery: - The project aims at devising an injection and production well placement strategy which will enhance the oil recovery. Experiments are performed on 3-dimensional sandpack and core samples to see the performance of horizontal wells as compared to vertical wells in oil recovery by waterflooding. In addition, the effect of wettability of rock and its alteration on oil recovery will also be studied.

B.E Project :(Aug. 2002 – July 2003)

Computer Vision System for L&T:- In an attempt to make inspection process on assembly line human and error free, we made software to automate the inspection of the Magnetic Core assemblies used in switch gear made by L&T at Powai works. The project involved developing an image acquisition software and image analysis to see any defect.

Diploma Project: (July 1999 - June 2000)

Automatic Newspaper Vending Machine:- The popularity of cold drink vending machine made us think to make news paper vending machine which will make newspaper selling absolutely labor free during off hours. We successfully built a prototype of vending machine which would dispense a newspaper after inserting the required amount.

Course Projects:

Heat Transfer in Tapered Fin. (Course-Finite Element Method (B.E.)):- In this preliminary course of introduction to numerical technique, I modeled a tapered fin using IDEAS (commercial software) to study the effect of different parameters on fin performance.

Natural Convection in Porous Media. (Course- Transport in porous media):- In this project CFD analysis of a liquid filled cavity, partially covered with a porous block on a face was carried out. The results were in good agreement with available experimental data of Prof. A. Bhattacharya's PhD Thesis.

Liquid water transport through Porous Gas Diffusion Layer of PEM fuel cell. (Course- Fuel Cells):- Water management that balances membrane dehydration with electrode flooding is critical to achieve high performance and longevity of the fuel cell. The accumulation of liquid product water in polymer electrolyte membrane (PEM) fuel cells currently limits the performance of these devices. Numerical simulation was

performed in MATLAB to gain insight into the effect of load, permeability of GDL on distribution of water in GDL.

Numerical simulation of two phase flow in porous media: Buckley Leverett Problem. (Course- Computational Methods in Thermal & Fluid Engg.):- The aim of the course was gain insight in methods used to solve differential equations. I have modeled a hyperbolic equation using Lax Wendroff scheme to simulate the two phase flow of oil and water in one dimensional porous core sample. The numerical results were compared to the results available in literature.

Research Papers:

1. Hadia, N., Chaudhari, L., Aggarwal, A., Mitra, S. K., Vinjamur, M, and Singh, R. "Experimental and Numerical Investigation of One Dimensional Waterflood in Porous Reservoir". Experimental Thermal and Fluid Science, Under Review, March 2006.
2. Hadia, N., Chaudhari, L., Mitra, S. K., Vinjamur, M, and Singh, R. "Experimental Investigation of Use of Horizontal Wells in Waterflooding". Journal of Petroleum Science and Engg, Accepted for publication, October 2006. DOI:10.1016/j.petrol.2006.10.004
3. Hadia, N., Chaudhari, L., Mitra, S. K., Vinjamur, M, and Singh, R. "Waterflood Profiles and Oil Recovery with Vertical and Horizontal Wells". Energy Sources, Accepted for publication, October 2006.
4. Hadia, N., Chaudhari, L., Mitra, S. K., and Vinjamur, M. "Experimental Investigation of Performance of Horizontal Wells in Waterflooding using Scaled 3D Model". Full length paper submitted to "PETROTECH 2007" International Conference going to be held in Delhi (India), January 2007.

Scholastic Achievements:

- Stood **2nd** in **Mumbai University** in Mechanical division in **Bachelors Degree.**
- Stood **8th** in **Maharashtra state** in Mechanical division for **final year diploma.**
- Secured '**SIR RATAN TATA SCHOLARSHIP**' for consistent academic performance.
- Always stood **first** in class during schooling and Diploma course.

Extra Curricular Activities:

- Member of **MESA** during B.E. during Final Year
- **Event head** for working model presentation for international college fest. “**TECHNOVANZA 2002**”, VJTI.
- Active participation in cultural activities during school and college attendances

Work Experience:

- Worked in **Thermax India** for a year (2003-2004) as a **Trainee Engg.** As a part of training worked in Purchase department looking after subcontracting of Air pre-heater and Water pre-heater. Handled a monthly invoicing of about 15 lacs. Was responsible for scheduling and delivering the sub-assemblies on time.
- Working as a Research Assistant in **IITB-ONGC Joint Research Centre**, IITB since 2004. Was involved in setting up the lab right from scratch, which was built in a record time of 3 months. Other activities include maintenance of research facilities, carrying out detailed search for purchasing laboratory equipments, preparing draft project proposals etc.

Computer Skills:

- Programming Language C, C++, Visual Basic, LabView, MATLAB
- Ideas (Design and FEM analysis), Ansys, FEMLab.
- Eclipse (Reservoir simulation software)

Hobbies:

- Teaching
- Trekking

I hereby declare that all the statements made above are true & correct to the best of my knowledge.

LALIT S CHAUDHARI.