

Utkarsh Maheshbhai Patel

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Career Objective

To work with maximum potential in a challenging and dynamic environment, with an opportunity of working with diverse group of people and enhancing my professional skills with learning and experience for career growth.

Experience

Assistant System Engineer Trainee, Tata Consultancy Services (TCS)

Duration: June, 2021 – Present

Role: Engineer

Responsibility:

- Server & Application Monitoring
- Issue or Query Resolving
- Deployment & Debugging of Code

Project

➤ **Simulation of an Impinging Jet (at IIT Bombay)**

Date: AUG 2020 to Present

Mentor: Prof. Amit Agrawal, Dr. Niraj K. Shah

Team Size: 1

Key Skills: ANSYS Fluent

Basic Description: Air is supplied to the Impinging plate by an Impinging Jet to decrease the temperature of Impinging plate. At the time of air imping on plate parametric study is performed in Fluent to calculate the Nusselt number, heat transfer coefficient, Temperature distribution on plate with respect to time. With variation in inlet air Reynolds number, nozzle to plate distance.

➤ **Development of Molecular Dynamic Solver (at Nirma University)**

Date: JAN 2020 to MAY 2020

Mentor: Dr. Niraj K. Shah

Team Size: 1

Key Skills: C Programming, Molecular Dynamics

Basic Description: Developed a C language Program with the Fundamentals of Molecular Dynamics and numerical calculations logic to solve MD problem. Random atoms or molecules are generated inside box with initial properties to Molecular dynamics program. For number of iterations or time scale calculations are performed to study Potential Energy, Kinetic Energy, Total Energy, density, Temperature, Velocity & Acceleration for every atoms or molecules at each step or iterations.

➤ **Fabrication and Analysis of Thermoelectric cooling system using Solar Panel (at Indus University)**

Date: DEC 2018 to APR 2019

Mentor: Krunal Parikh (Asst. Prof.)

Team Size: 4

Key Skills: Design of Project, Numerical calculations

Basic Description: Design a thermoelectric cooling system using alternate power supplies Solar panel, Battery & Direct AC Power supply with the use of toggle switch. Design of project is done using Creo software and schematic diagram is prepared in AutoCAD software. Different modules of thermoelectric effects experimentally analyse for specific size of Thermo col box and compare results by Temperature with respect to time & numerically calculated the COP, Heat removal rate.

Research Work

- Published a paper titled as “**FABRICATION AND ANALYSIS OF THERMO ELECTRIC COOLING SYSTEM**” in JETIR (Journal of Emerging Technologies and Innovative Research” in volume 6 Issue 4, April – 2019 {JETIR1904K48}.

Education

Nirma University 2019 – 2021

M.Tech – Thermal Engineering | CGPA: 8.52/10.0

Indus University 2015-2019

B.Tech – Mechanical Engineering | CGPA: 6.11/10.0

12th | **GSHSEB** | Aggregate: 65.00/100.00 2015

10th | **GSHSEB** | Aggregate: 79.00/100.00 2013

Assessments/Certifications

- Certificate of Specialization in “Six Sigma Yellow Belt” from University System of Georgia in Sep 2020.
- Introduction to Programming with MATLAB from Vanderbilt University in July 2020.
- Programming for Everybody (Getting started with Python) from University of Michigan in June 2020.

Skills

Tools: Eclipse IDE, Spring Tool Suite

Languages: Core Java, Python, C

Framework: Spring, Spring Boot

Web Technologies: HTML, CSS

Extra Curricular Activities

- President of ASHRAE Nirma University Student Club (2020)
- 2nd position in volleyball Intra college competition COLYMPICS’19 at Indus University in Mar 2019.
- Student Member of ISHRAE Ahmedabad Chapter (2017-18 & 2018-19)
- CWC Member of ISHRAE Indus University Student Club (2017-18)

Web Links

- **LinkedIn:** [linkedin.com/in/utkarsh-patel-4aa509175](https://www.linkedin.com/in/utkarsh-patel-4aa509175)
- **Skype ID-** um1810patel@gmail.com
- **Website: GitHub -** <https://github.com/UtkarshPatel97>

Personal Details

Gender: Male

Date of Birth: Oct 18,1997

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Marital status: Single

Known Language: English, Gujarati, Hindi