



ILESH KALPESH PATEL

B.Tech - Mechanical Engineering

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BRIEF OVERVIEW / CAREER OBJECTIVE / SUMMARY

Seeking a challenging environment that offers growth opportunities in lieu of my enthusiasm and conceptual skills to better self and the employer. And to work efficiently so that can get enough of knowledge and can also contribute to the workplace who gave me the opportunity to showcase and enhance my skills.

KEY EXPERTISE / SKILLS

AutoCAD ANSYS MS Office MATLAB Siemens Solidedge Leadership Management Skills

EDUCATION

Nirma University B.Tech - Mechanical Engineering CGPA: 7.97 / 10.00	2018 - 2021
Government Polytechnic, Rajkot, Rajkot Diploma Diploma - Mechanical Engineering GTU Percentage: 88.30 / 100.00	2018
Gururanak & Chadraketu Pandya English Medium School, Ahmedabad 10 th GSEB Percentage: 72.50 / 100.00	2015

INTERNSHIPS

Nirma University Key Skills: MATLAB Title of the internship was "Introduction to Programming with MATLAB", the main goal of this virtual internship is to learn basic programming with MATLAB.	June 1, 2020 - June 30, 2020
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PROJECTS

Parametric Studies on Heat Pipe Mentor: Dr. S V Jain Team Size: 2 The objective of the present study is to study the effects of various parameters on a copper heat pipe such as filling ratio, heat input, Gravity - assisted angle of orientation of heat pipe, wick mesh size and the number of wick layers. Also in order to enhance the performance of heat pipe.	Jan. 7, 2021 - April 30, 2021
Investigation of Heat Transfer Enhancement Techniques Mentor: Dr. S V Jain Team Size: 3 The objective of the present project is to study the various heat transfer enhancement techniques and to carry out numerical investigations of various Heat Transfer Enhancement Techniques with the help of ANSYS software for Solar Air Heater and any other applications. And to implement the best suitable technique in Solar Air Heater i.e. using Ribs and compare the experimental result with analytical result. And carry out the parametric investigations.	July 9, 2020 - Dec. 3, 2020
Experimental Investigation of Heat Pipe Mentor: Dr. S V Jain Team Size: 3 The objective of the present study is to study the effects of various parameters on a copper heat pipe such as filling ratio, heat input, Gravity - assisted angle of orientation of heat pipe, wick mesh size and the number of wick layers. Also in order to enhance the performance of heat pipe, techniques such as increased roughness (average roughness of 6.905 microns) on evaporator surface and TFE (tetrafluoroethylene) coating on condenser surface were used and the performance compared with the untreated heat pipe.	Jan. 2, 2020 - April 1, 2020
Study and Experimentation on Down- Draft Biomass Gasifier Mentor: Prof. D S Upadhyay Team Size: 2 Detailed study on different types of biomass gasifier and their applications. Gasification processes in Down-Draft gasifier and their drawbacks. Experiments were conducted with lignite and waste wood in different proportion as a fuel for gasifier. Wood proportion in mixture of wood and lignite was taken as 0%, 10%, 15%, 20%, 25% respectively. In all experiments fuel consumption, GCV of fuel and syngas, gas generation rate were measured. Temperature in different zones viz. drying, pyrolysis, combustion and reduction zone measure with the help of thermocouple. It was observed while using only lignite as a fuel in downdraft gasifier that quality of gas was poor so we decided to mix wood in different proportion.	Jan. 3, 2019 - Dec. 5, 2019
Folding Bicycle (Diploma) Mentor: Prof. U D Vyas and Prof. H N Vora Team Size: 5 Key Skills: Arc Welding Assembly CNC Operation	July 13, 2017 - April 19, 2018

ACHIEVEMENTS

- Administrative Head of MESA (Mechanical Engineering Student Association) – 2020-21 Nirma University.
- Event Head and member of managing committee of Praveg 2019 organized by MESA – Nirma University.
- Secured the 2nd Rank in Semester 6th of academic year in Diploma Mechanical Engineering at Government Polytechnic Rajkot in 2018.
- Secured the 1st Rank in Semester 5th of academic year in Diploma Mechanical Engineering at Government Polytechnic Rajkot in 2017.
- Secured the 2nd Rank in Semester 3rd of academic year in Diploma Mechanical Engineering at Government Polytechnic Rajkot in 2016.

ASSESSMENTS / CERTIFICATIONS

Solid Edge - Introduction to 2D Geometry by SIEMENS

Key Skills: Design Sketching

Solid Edge - Introduction to 3D Design by SIEMENS

Key Skills: Product Design

The Fundamentals of Digital Marketing by Google Digital Garage

Key Skills: Digital Marketing

Solid Edge- Generative Design by SIEMENS

Key Skills: Generative Methods Load Analysis

cwbeducation - Basic Inspection Methods

Key Skills: Welding Welding Inspection Methods Inspection

SEMINARS / TRAININGS / WORKSHOPS

W59 Workshop for Supervisors and Inspectors Institute Name: cwbeducation

June 28, 2020 - June 28, 2020

Key Skills: Quality Check Welding

Automobile Workshop

Sept. 18, 2019 - Sept. 20, 2019

Institute Name: Nirma University

Key Skills: Design SolidWorks Stress Analysis

Automobile Workshop conducted by MESA – Nirma University in Praveg 2019.

CNC TURNING CENTER AND 3D PRINTER

Feb. 20, 2018 - Feb. 20, 2018

Institute Name: Darshan Institute of Engineering and Technology, Rajkot

Key Skills: CNC Operation Rapid Prototyping

One day skill development programme with “CNC TURNING CENTER AND 3D PRINTER” jointly organized by ISTE Student Chapter and GTU Innovation Club at Darshan Institute of Engineering and Technology, Rajkot on 20th February 2018.

CO-CURRICULAR ACTIVITIES

- Participated in online expert talk on Environmental Impact Assessment as a celebration of Van Mahotsav organized by National Service Scheme (NSS) at Nirma University in July 9, 2020.
- Served as Member of Student committee & was inherent part of the event organized in Nirma Alumni Get to Gather January 4, 2020.
- Participated in General Knowledge Quiz at Praveg 2019 which is organized by MESA.
- Participated in Non-Technical event named “Sell it your way” at Praveg 2019 organized by MESA.
- Participated in an event named “Ballista” at FootPrints X6 organized by Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda in February 2016.

EXTRA CURRICULAR ACTIVITIES

- Participated in Community Connect: Unlocking Skills for Yuva organized by MASH Project Foundation on 15th July, 2020.
- Completed online course “Career Edge - Knockdown the Lockdown” offered by TCS iON on 30th May 2020.
- Completed the 1173 Manali Trekking Expedition organized by Invincible-The NGO during 22nd – 31st May, 2019.

PERSONAL INTERESTS / HOBBIES

- Travelling
- Organizing & Co-ordinating Get to Gathers and meetups (both formal and informal).
- Sports like Cricket, Volley ball and football.
- Story Telling

WEB LINKS / IMs

- Skype - live:.cid.6c15d15a58baadb4
- LinkedIn - <https://www.linkedin.com/in/ilesh-patel-180499>
- Personal - <https://sites.google.com/view/ileshpatel>
- Other - https://www.researchgate.net/profile/ilesh_Patel4

PERSONAL DETAILS

Gender: Male

Marital Status: Unmarried

Current Address: A-2,401 Vishwas City-1, Opposite Shayona City
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REFERENCES

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- **SANJAY JAIN**
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