



DHAVLESH SUTHAR

ACADEMIC DETAILS

Degree	Institute / School	Board / University	Year	Results
Master's in Building Products and Systems	CEPT University	CEPT University	2020-2022	4.1/4.3
BTech(Mechanical)	School of Engineering & Applied Science	Ahmedabad University	2016-2020	2.63/4.0 (CGPA)
HSC	Mangaldeep Vidhyalaya, Ranip	Gujarat Board	2016	73.54%
SSC	K.R. Raval Madhyamik Shala, Ranip	Gujarat Board	2014	87.17%

ABOUT ME

DATE OF BIRTH : JUNE 1, 1999

Gender : MALE

BIRTH PLACE : AHMEDABAD, INDIA
AGE : 20

CONTACT

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Achievements

- Founder and joint secretary of 'The food and Nutrition club' of Ahmedabad University For year 2018, 2019 and 2020 (till May)
- Overall coordinator in ISP (Independent Study Period) for year 2017 and 2018
- Secretary of Rotract club of Transcend for year 2020-2021
- Youth Fest 2018 group dance winner of Ahmedabad University
- Solves different types of Rubik cubes (2*2, 3*3, 4*4, Pyramid, Magic, Skewb, 3*3 Twists)
- Secured the 1st position in Mock Stock: Concourse 2019 The management Fest of Ahmedabad University, open Participants including other Universities.
- I have achieved 98.70 percentile in S.S.C Gujarat board in 2014 out of 9.75 Lakhs students.

OTHER QUALIFICATION

- 'The Fundamentals of Digital Marketing' from Google Digital Unlocked
- 'Mechanical Ventilation for COVID-19' from HARVARD MEDICAL SCHOOL
- 'Introduction to Food and Health' from Stanford University School of Medicine
- 'Introduction to Artificial Intelligence' from TATA CONSULTANCY SERVICES ION
- 'Cyber Security' & 'Interior Design' from eLearning college
- 'Advanced Google Analytics' from Google Analytics Academy

HOBBIES



INTERNSHIPS

- May 2019 – June 2019 (1 Month)
- Windsor Machine LTD., Ahmedabad
Learning about operation and assembly of injection moulding machines, Extrusion line machines, Film production line machines.
- May 2018 – May 2018 (10 DAYS)
- Jyoti CNC Automation LTD., Rajkot
Learning about machines like CNC, VMC, HMC, Lathe machines, Etc. Internship was all about operations and to know more about the practice application of classroom learning at industrial level.

Technical Skills

- AutoCAD Software
- Solidworks Software
- MatLab
- Arduinio
- Use of laser cutter - Lasercad Software
- Use of 3D Printer - Cura Simplify Software
- Use of Lathe, VMC, CNC, Slotter Machines
- CAD-CAM
- CMM Robot (Zeiss spectrum robo)
- Adobe (Photoshop, Illustrator, InDesign)
- 3D Softwares (Sketchup, Rhinoceros)

PROJECTS

Charpy Impact Testing Machine

Faculty : Dr. Harshal Oza and Dr. Ajay Karakoti

Skill Used : Material Science, Strength of material, Solidworks & AutoCAD design softwares, Manufacturing, Laser Cutter, Lathe, Milling, Drilling.

Semester : 3rd

To design, Develop, Create and testing charpy impact tester. Also, design light weight with highest load and minimum cost. There are two types of impact tests. One was charpy impact test and another was load impact test.

Gearbox

Faculty : Prof. V.R. Iyer

Skill Used : Design of machine elements, Manufacturing Processes, Solidworks Software, Manufacturing, Lathe, Milling, Drilling, Slotter machine, Gears alignment.

Semester : 4th

Design and development of Gearbox mechanism as per calculation in solidworks and made model in workshop. Main objectives was to reduce the speed of final Gear mechanism to 1/9TH times the input speed using a Gear train.

Multilayer Microfluidic Chip

Faculty : Dr. Shashi Prakash

Skill Used : Fluid machines, Manufacturing with Non-Metals, Rapid prototype, Cura simplify software, 3D Printer, Lathe Solidworks, CAD design, Workshop Fabrication, Grinder.

Semester : 8th

Design and Manufacturing of multilayer micro-fluidic chip is a set of micro-channels etched or melded into a material (Glass, Silicon or Polymer such as PDMS, PMMA). The micro-channels forming the micro-fluidic chip are connected together in order to achieve the desired features. Our focus is on micro machining and bonding part of the micro fluidic chip.

Flat Belt Grinding Machine

Faculty : Dr. Shashi Prakash

Skill Used : Dynamics of MACHINES, Manufacturing with Non-Metals, Solid - works, AutoCAD, Workshop fabrication, Lathe, Milling, Drilling, Motor and pulley belt alignment, Grinder.

Semester : 7th

To design and fabricate flat belt grinding machine. In this project. We made whole machine and all components, increased mechanical efficiency plus safety, also designing aesthetically and user friendliness. Furthermore, we tried to reduce vibrations of the structure. In our workshop, during this project we used machines like Lathe, Milling, Grinding, Drilling and we also made wooden pattern of our special design rollers.

Pelton Wheel

Faculty : Prof. V.R. Iyer

Skill Used : Fluid Machines, Manufacturing with non-materials, Rapid prototype, Cura simplify software, 3D Printer, Solidworks, CAD design, Workshop fabrication, Lathe, Grinder.

SEMESTER : 5th

Design and Manufacturing of Pelton turbine wheel as per define condition and analysis of the pelton wheel model. We made this model in solidwork as per design calculation and after that, I used cura simplify software of 3D-printer for manufacturing.

Other Projects

- Xlturn Lathe Machine Design
- Abrasive Water jet machine - case study
- IEEE Expo
- Mechatronics - Halcyon
- User centered design - Braces designs
- Quality Engineering - JIT case study
- MVLA - Case study
- Organic Chemistry - honey test
- Metrology Lab - Zeiss spectrum robo, Car Engine project
- Heritage - queen's Tomb
- Entrepreneurship - B2B, B2C
- Industrial statistics - Case study
- Workshop Bench Vice Design (CAD)
- Spade project

Co-Curricular Activities

- Online Course on MATLAB by MathWorks in 2019.
- Tech Fest - Ingenium 2018 – Volunteer of Ahmedabad University
- CAD Workshop of Ingenium 2017, Ahmedabad University
- Participated in Shutterbug photography Festival organised by Photography club of Ahmedabad University in 2018.
- #WWIM13 – World Wide instameet13
- IEEE Member
- Tasting Cultrers - The Food Fest By 'The Food and Nutrition club'

ELECTIVES

- Advance Machining Methods
- Renewable Energy Technology
- Quality Engineering
- Production and Operation Management
- Machine Vision, Learning and Applications
- Introduction to Heritage Management
- Industrial Statistics
- Introduction to Entrepreneurship
- Cost Accounting - I