



SANAT RAKHOLIYA

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I am looking for long term job opportunity with a company where I can learn and grown myself with organization, Where I will have effective environment for knowledge, where with my skills and knowledge I will be able to know about new things and where my performance will meet to company's goals/needs. I am very enthusiastic, quick learner, hardworking, good at problem solving, willing to travel for work

PERSONAL INFORMATION

- Birth date: **26. AUGUST 1991**
- Birth place: **JUNAGARH, GUJARAT - INDIA**
- Nationality: **INDIA**
- Family status: **SINGLE**

EDUCATION & EXPERIENCE

12/2018- 7/19

PROJECT MANAGER/ BUSINESS DEVELOPMENT, FREBI.INC, RAJKOT

During this period I was responsible for managing & planning development different projects involving Machine design, Image processing, Production etc. As well as market research for product development.

- Planning & strategy development for design, production, sales & marketing
- Searching prospective stack holder for business operations
- Initiate business discussion with prospective stack holder via email, call & chat.
- Building & maintaining business relations.
- Planning & executing international business trip & factory visits.
- Negotiating price, contract terms & business partnership.
- Preparing & receiving Performa invoice.
- Advising to top management in decision making.

03/2018- 10/2018

TEAM LEAD/MECHATRONICS ENGINEER, ALIYANCE MECHATRONICS, AHMEDABAD

During this period Our firm was working for Gujarat Science & technology Department (GOVT. of Gujarat) to build world's first Robosium at Science city – Ahmedabad. I was responsible for attending weekly project review meeting with GOVT. official to provide project related update as well as was leading team of engineers for following project/Exhibit.

- Chandrayaan-2 & Indus rover Replica design
- Workshop design
- 3D Robo scanner (human size) & 3D printer
- Robo Air hockey
- Robo Tour Guide
- VR-AR Gallery (medical, racing, flight simulator, training etc.)

09/2017- 2/2018

SENIOR DESIGN ENGINEER, PROTON ENGINEERS PVT. LTD, AHMEDABAD

At current position I am responsible for design & modification of Colloid mill, Tablet press, Mixtures, Die & punch design for tablets, Cam design, Pattern Design for Casting of parts, Parts & Assembly in AutoCAD & SolidWorks, Product Manual, Design Qualification, Installation Qualification and Operating Qualification.

06/2016- 08.2017

DESIGN ENGINEER, RAPID BEVTECH PVT. LTD, AHMEDABAD

During this position I was responsible for design of various processing machine such as Warmer/ Pasteuriser, Caser-un caser and conveyors which include task such as :

- Engineering calculation, Prepare BOM, Prepare machine from design to dispatch stage.
- Manufacturing process & Material selection, Finding Vendor for various parts.

SOLIDWORKS:

-3D CAD, 2D Drawings, Assembly Drawings, Exploded view for Assembly & Manual, Flats pattern.

-Add In: Sheet Metal, Weld Metal, Piping, Motion Study, Static, flow simulation and Animation video.

AutoCAD:

-2D Drawing & 2D Assembly, Machine Layouts

-Block, layers, Custom libraries.

07/2015- 10/2015

TRAINEE IN ASSEMBLY DEPARTMENT, VOLKSWAGAN GMBH, WOLFSBURG

04/2014-10/2014

PRAXIS SEMESTER IN R & D DEPARTMENT, FRAUNHOFER INSTITUTE OF PRODUCTION TECHNOLOGY, AACHEN

During this internship I was working on research project. My task was to find a software solution for project(DMD-based wave front metrology for flexible optics testing of progressive freeform optics) using MATLAB and Visual Studio

07/2013-9/2013

TRAINEE IN DESIGN & SERVICE DEPT. AT LEMKEN AGRO VISION, ALPEN, GERMANY

2/2013-7/2013

INTERNSHIP MATERIAL TESTING AND FAILURE ANALYSIS AT DR.SOMMER WERKSTROFFTECHNIK, KEMPEN, GERMANY

During this internship I learn to investigate and find reason for failure of machine component

Which includes testing design of machine part, material properties such as strength, elasticity, microstructure, material composition using electron microscope and various other testing machines.

10/2011-7/2016

BSC. MECHANICAL (6TH SEMESTER), HOCHSCHULE RHEIN-WAAL, KLEVE

SUBJECTS & SOFTWARES

- Vehicle Dynamics, Modelling & simulation (**MATLAB, PLC Programming**)
- Fundamentals of processing engineering, Plant design (**AUTODESK 3D PLANT DESIGN**)
- Project management, businesses economies, investment & financing, Creativity
- **Conflict Management, Design to cost, Economy of design, Cost accounting & sells**
- Production Technology, Manufacturing systems (**factory design, lean production**)
- Technical design, Product design (**SOLIDWORKS**)
- Material sciences, Material testing & failure analysis

02/2011 - 05/2011

TRAINING ON EMBEDDED SYSTEMS (2/2011 - 5/2011)

During this training I learn embedded Programming, PCB and circuit design, interfacing between mechanical and electronics field.

- 8051 with assembly and embedded c
- PIC controller, ARM7 in embedded c language
- Sensors & switches
- Real time operating system
- I2C protocol, RS232, RS485, CAN protocol

02/2010 - 02/2011

TRAINING ON AUTOMATION

My main responsibilities included being responsible for customer service, panel designing with AutoCAD, PLC (programmable logic controller) programming, interfacing of PLC with HMI and mechanical devices

- PLC, PLC Networking, HMI/MMI(Human Machine Interface), InTouch (SCADA)
- Panel designing, Process Instrumentation
- AC-DC Drives, Starter & motors

09/2008-6/2011

DIPLOMA IN MECHATRONICS, B.S. PATEL POLYTECHNIC, KHERVA, INDIA

Overall score. 7.99 CPI (80%)

8/2006-3/2008

11 & 12TH SCIENCE, ALPHA HIGH SCHOOL, JUNAGADH, GUJARAT, INDIA

06/2003-3/2006

HIGHSCHOOL, SHREE PATE VIDYA MANDIR, DHPRAJI, RAJKOT, GUJARAT.

Workshop as elective (8-9-10th STD)

- Carpentry, Fitting, Sheet metal, Machine shop (lathe machine, grinding machine etc.), Gas & ARC Welding, Engineering Drawing

PROJECT

02/2017- 5/2017

DIY ARDUINO BASED 3-AXIS VMC

As Suggested by name. I build 3-axis vertical milling machine in my free time using V slot aluminum rail, v slot wheel, T 20 timing belt with 2mm pitch, 8mm diameter lead screw & nut, MACH3, ARDUINO microcontroller & stepper motor. This machine has working area of approx. 450X450X300 mm. Also I have used Air cooled quite cut spindle, CAMWorks & Autodesk Art Cam for testing.

01/2014- TO DATE

SMALL SCALE UNIVERSAL COMBINE HARVESTER FOR DEVELOPING COUNTRIES

This project deals with the designing economic small scale combine harvester which can Harvester multiple crops with sieve adjustment. I recently completed conceptual 3d model of Machine as I have free time I will continue this project to next stage.

10/2013-2/2014 BECHALORE PROJECT-II

120 MM TUNNEL (DRAINAGE) DIGGING MACHINE

Goal behind the project was to build a machine (theoretically) which can make tunnel of 120 mm diameter for drainage /cables and remove material out of tunnel. Our task was to find concept and solution for design, mechanism, electronics circuit design, cost calculation of different parts of machine and production I was working in a group of students from Mechanical, electronics, and Industrial engineering. I was group leader in team responsible for concept, Cad design and interfacing between mechanical and electronics.

02/2011-06/2011

"PLC CONTROLLED BOTTLE FILLING & HANDLING SYSTEM", B.S PATEL POLYTECHNIC GUJARAT

The project deals with the design of a conveyer belt system for a bottle handling. It included the fabricated structure with solenoid valve, PLC, SCADA, Bearings, Belt, Sensors, Control panel and Motor. We used proximity sensor for accurate

positioning of the bottle and switching solenoid valve to fill bottle. The Controller was implemented with DELTA PLC & InTouch SCADA

SKILLS

- ❖ Application software (mechanical)
 - Solid works
 - AutoCAD
 - ANSYS
 - Mat lab
 - Microsoft office
 - ERP
- ❖ Application software
 - SCADA
 - HMI & PLC Programming
 - Microcontroller Programming
- ❖ Language Proficiency
 - Gujarati : Mother Language
 - Hindi : Fluent
 - English : Fluent
 - German. : Fluent (A1-A3)

INTEREST & ACTIVITIES

Freizeitsport: Fitness, Joggen, Fussball

Kultur: Konzerte, Festivals

Sonstiges: Ausgeprägtes Interesse an Wirtschaft, Politik und Technik, Programieren, CAD