

Chirag Prajapati

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Objective

Mechanical Engineer (BTech Graduate) with first class distinction grade and an objective to pursue a highly rewarding career in challenging and healthy work environment utilizing all my skills and efforts to achieve technical advancement. At present working as an Assistant Design Engineer with proficiency in CAD/CAM software such as AutoCAD, PTC Creo Parametric, Solid Edge and Siemens NX for production using CNC machines.

Professional Experience

❖ Assistant Design Engineer

Corrttech Energy Ltd., Design Department

Jun 2018 - Present

- To take technical leadership of project allotted and ensure on time completion by co-ordinating with different departments and to facilitate execution of production and overcome production difficulties if any occur for achievement of the company's targets
- Preparing part development details, manufacturing process plan and route sheet for new aerospace, defence and gas turbine development projects assigned to me after consulting with corresponding design H.O.D. and other department heads.
- To prepare and maintain CAD data such as part model, Drafting, assembly and documents pertaining to my function such as manufacturing drawing and component drawing by providing proper GD&T and dimensioning suitable for manufacturing and quality inspection perspective.
- To prepare basic CAM and complex wire cut programs in software required for project.
- Design of efficient and easy to use jigs, fixture and gauges to facilitate lean manufacturing of components with minimum cycle time and rejection.
- Utilize SAP-ERP to generate production order, purchase requisition, check stock and procure material required for execution of project.
- To co-ordinate with customer to resolve technical queries that occur in project assigned to me after consulting with H.O.D.
- Perform manufacturing cost calculation for providing bid price of tenders by co-ordinating with various department heads if instructed by Design H.O.D.
- Worked on aerospace component manufacturing projects of **HAL, L&T, GTRE** and gas turbine projects of **Weir, ETI, Ansaldo Thommassen, Dacon**, etc. companies.

❖ Summer Intern

Chem Process Pvt Ltd

Jun 2017 - Jun 2017

- Overview of Design & Manufacture process of Agitated Thin Film Driers - ATFD, Zero Liquid Effluent Discharge Systems, Salt Recovery Plants, Surface Condensers, Heat Exchangers and Pressure Vessels.
- Application of quality control and inspection processes such as Ultrasonic Testing, Die Penetration Test and Radiography as per ISO standard.

Education

❖ Indus University, Ahmedabad, Gujarat BTech in Mechanical Engineering

May 2014 – Jun 2018

- Completed BTech in Mechanical Engineering with **9.06 CGPA** and First Class with Distinction.
- Published a **Research paper** in International Journal for Research in Applied Science and Engineering Technology (IJRASET) on topic of "Fabrication of Low Cost Desktop CNC Engraving Machine".
- Volunteered in fest held at the university and was a member of IRC (Indus Robotics club) and Robocon Team of Indus University "Impulse" for ABU Robocon international competition.
- Second position in extempore competition held at university annual fest.
- Second position in youth parliament held at university annual fest.
- Second position in debate competition held at university annual fest.

❖ The New Tulip International School, Ahmedabad

Jun 2012 – Mar 2014

- Higher Secondary Education - GSHSEB , Science with specialization in Physics, Chemistry, Math's, Computer and English
- **82% with 96.88 Percentile Rank.**

❖ The New Tulip International School, Ahmedabad

Jun 2011 – Mar 2012

- Secondary Education - GSHSEB-**87%** with **97.36 Percentile Rank.**
- Volunteered to collect funds for cancer donation event.

Projects

❖ Low Cost Desktop CNC Engraving Machine

Nov 2017 - May 2018

- A project developed with an objective to make CNC a compact device and flexible equipment at low cost, suitable for machining and plotting operations even at home.
- We used MDF a soft and lightweight material to make its structure.
- Use of universal Gcoder a freeware from github website to provide the User Interface to control the CNC.
- Integration of stepper motor, drivers and lead screw and to actuate it using an arduino uno circuit board to achieve precision as much as possible.

❖ Frisbee shooting and Line following robot

Oct 2016 - Feb 2017

- This robot was made based on the theme "Asobi: The Landing Disc" of **ABU Robocon**, an International Robotics competition in which our university's team "Impulse" had participated.
- Had role of mechanical design engineer in team.
- It is a semi-automatic robot which has a line tracking sensor based on color as well as pneumatic and motor mechanisms to load and shoot Frisbee from its cartridge.
- Responsible for design of structure, actuator mechanisms and fabrication process planning of the robot and coordinated between mechanical and electronics members for improvising the robot features.

Skills

- Basic proficiency in **Microsoft Office** for preparing audit documents and templates.
- Basic proficiency in **PTC Creo** for Solid modelling and assembly preparation.
- Highly proficient in **Siemens Solid Edge** and **Dassault SolidWorks** for solid and surface modelling, drafting and assembly preparation.
- Basic proficiency for performing normal stress analysis in **ANSYS**.
- Highly proficient in **Siemens NX** for CAD solid modelling and basic proficiency in 3-axis CAM milling.
- Highly proficient in **2D AutoCAD** and Basic in **3D AutoCAD**.
- Excellent **co-ordination, leadership** and **communication skills**.

Languages

- English
- Gujarati
- Hindi