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**Mechanical Engineer**

**PRIYANK J. PRAJAPATI**

🕿:**+91 9722353955**

Email:[priyankprajapati9038@yahoo.com](mailto:priyankprajapati9038@yahoo.com)

**B-149, Maruti Tenament society,**

**B/H Bhavna vidhyalaya school,**

**Vastral road, Amraiwadi,**

**Ahmedabad-382415.**

**CAREER OBJECTIVE:**

Looking for challenging career, where there is a scope for demonstration, always on a look out for a positive & bigger outlook and effectively utilize my skills and expertise to increase the productivity of the company.

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| **ACADEMICS :** |

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| **Standard** | **University/School** | **Board/Uni.** | **Year** | **Percentage** |
| **M.TECH**  **CAD/CAM** | Indus Institute of Technology and Engineering | INDUS UNIVERSITY | 2014-2016 | **CGPA : 8.32** |
| **B.E.**  **MECHANICAL** | Samarth College of Engineering- hajipur, himatnagar | Gujarat Technical University | 2010-2014 | **CGPA : 7.63** |

**TECHNICAL AND SOFTWARE SKILLS:**

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| **Programming Languages** | C Language |
| **Software Known** | Solidworks 2018, AutoCAD, ANSYS Workbench,  Matlab, M.S.Office |
| **Other Skills** | Engineering Design, Reverse engineering,  Prototyping, |
| **Operating Systems** | Windows- XP/Vista/7/8 |

**EXPERIENCE:**

**1)** Have been working in Lexus Watertech Pvt. Ltd., Kathwada GIDC, Ahmedabad. as Design Engineer from 13th July 2016 to till date.

Work profile:

* Making 3D models of Booster pump parts,
* Research and develop products
* Design and implement cost-effective equipment
* Discuss and solve complex problems with manufacturing departments
* Organize and maintain existing engineering records
* Reverse Engineering,
* Design of Moulding parts,
* Analysis of various parts of pump against interference,
* Developing new models of pump,
* Design of Fixture for assembly,
* Design of RO body,
* Design of critical fixtures and tools.

**SALARY - 33000/MONTH**

**2)** Have worked at Doshion Veolia water solutions pvt. Ltd. (6 months) as a GET in EPC proposal Dept. which is manufacturing WTP, STP, ZLD plants.

Work profile: Preparing PFD, P&ID, GA drawings, making offers of projects, govt. Tenders, Marketing of our plants.

**ACADEMIC PROJECTS :**

**M.Tech Project :**

**Project Title :** Heuristic approach based Maintenance optimization in process plant

**Organization :**Welspun Corp. Ltd, Plate & Coil Mill Plant, Anjar, Kutch

**Duration** : 1 Year

**Methodology :** Genetic Algorithm, Failure Mode Effect Analysis

**Software’s :**Matlab

**Description :**

* Maintenance plan is designed for four identified critical components in Plate & coil mill plant. The Goal of the project is to increase the plant availability and reduce down time of plant.
* Failure Mode Effect analysis is done to find out the criticality and risk priority number of each component. Genetic Algorithm is used for optimization of Availability Parameters like MTBF, MDT, MTTR.
* After implementing proposed maintenance plan Availability of plant has increased up to 4.5% which verifies the result obtained from Matlab software (i.e. 5-6%) up to some extent.

**BE Project :**

**Project Title :** Drilling and cutting operation done by single machine

**Organization :**User Defined Project with model

**Team size :** 4 (Project Leader)

**Duration** : 6 months

**Methodology :** Use of Kinematics of Machinery

**Description :**

* In our project, the objective is to combine the general machining processes in one machine with ease of operation and to increase the production efficiency with decrement in machines used for the same process.
* In proposed project we have made conceptual model with the help of chain drive, gears in which drilling and cutting operation done by single machine simultaneously.
* This proposed model is beneficial in small scale workshops or industries where space is one of the critical aspect because it reduces cost, combines operation, requires less space, gearbox can be used for various speed.

**RESEARCH PAPERS PUBLISHED**:

Have presented Research Paper on “**Maintenance optimization for critical equipments in process industries**” in National Conference at 13th February 2016 also published in **IJERT.**

**CAD/CAE TOOLS:**

Have a adequate working knowledge on AutoCAD, Solid Works, Matlab, ANSYS.

**ACHIEVEMENTS:**

* Participated in “AUTO ARENA-2012” a state level technical event organized by “SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY” with KHODIYAR GROUP & BACHA MOTORS Ahmedabad, on 16th& 17th February 2012.
* Secured first place three times in chess tournament at Samarth college of engineering and technology in 2011-12-13.
* CWSP Exam cleared. Certificate ID : C-WVBWHMAU2Z

**INTERESTS & STRENGTHS**

**Interests-** Studying Technical-staffs, leading people, learning latest technologies.

* Design
* Manufacturing
* Production

**Strength -** Ability to learn quickly new technologies and like challenges in life. Always Hard Working and giving my best.

**PERSONAL DETAILS:**

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| **Date of Birth** | 31/05/1993 |
| **Gender** | Male |
| **Marital Status** | Married |
| **Nationality** | Indian |
| **Language Known** | English, Hindi, Gujarati |
| **Hobbies** | Reading, Internet Surfing, playing chess |

**DECLARATION:**

I hereby declare that the above mentioned information is true to the best of my knowledge.

**Priyank J. Prajapati**