

Curriculum Vitae

Tushar Sudarshan Karanjule.

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Objective:

Pursue a career in the area of” Mechanical Engineering “by joining a dedicated Design/R&D/Production/ Quality testing, working in a challenging and exciting environment”.

Career Summary:

WORK EXPERANCE: - AS ADESIGN ENGINEER - ROBOTICS (4.6 YEARS +)

1. CURRENT ORGANZATION: -“**CUBIX Automation Pvt Ltd**”.

DESIGNATION : – **DESIGN ENGINEER ROBOTICS (SolidWorks, MELFA Works, RT ToolBox3, Programming in C/C++ Basics)**

DURATION : - **From September 2018 To Till Date.**

CUBIX Automation Pvt Ltd. Is an authorized system integrator of ‘Mitsubishi Electric India’ for Robots &Gantry Solutions, Programmable Logic Controllers, A.C. Drives & Servo controls. Supplying automation systems from last 20 years to various industries ranging from Machine tool, Pharmaceutical & Chemical Plants.

Job Responsibility –

- By carrying out all the design work to the required standards of accuracy, Design Guides and Practice Notes and appropriate statutory regulations and codes of practice.
- By deciding a Robotic Concept, direct involvement in Design and Development for a particular PO order and representing same to the customer as per plant layout.
- Approve the concept from customer (DAP).
- Robotic application study, site layout study, collecting the data regarding product to be handle & providing the conceptual design & final DAP (design approval) from the customer.
- Design of products with help of SOLID WORKS, RT ToolBox 3, MELFA Works and AutoCAD.
- Project execution and technical support for mechanical and automotive domain using high-end engineering design/simulation software like RT Toolbox3, Solid Works & AutoCAD.
- Coordinating the project activities and Process planning, Cycle Time study, Robot and Gripper selection, Tool validation and Layout Optimization and Creation OLP in C/C++ Basics to ensure Process Planning and development as per the specifications of clients.
- Expertise in Simulation Software that will enable organization to consistently meet and enhance customer satisfaction.
- Robot Cycle time estimation, Gripper selection, Sequence of operation (SOP), Offline programming in C/C++ Basics (OLP), Super component, Kinematics, Tools, Simulation video creation etc.

- Validating and optimization of the cell layout, Teaching OLP in C/C++ Basics (offline programming) to Robots.
- Gripper selection and validation, creating the SOP as per the process.
- Creating the collision free working path& Robot path planning.

2. ORGANIZATION: – “PAYPER Bagging India Pvt Ltd. Pune”.

DESIGNATION: – DESIGN ENGINEER (AutoCAD, SolidWorks, Solid Edge)

DURATION: - From January 2017 To September 2018.(1YEAR 8 MONTH’S)

PAYPER Bagging India Pvt Ltd.is a pioneer in automatic bagging system and high accuracy weighers. Payper is a dynamic and flexible company with its core business being the design and manufacture of weighing, bagging and palletizing system.

Job Responsibility -

- By deciding a Concept, direct involvement in Design and Development for a particular PO order and representing same to the customer as per plant layout.
- Approve the concept from customer (DAP).
- By carrying out all the design work to the required standards of accuracy, Design Guides and Practice Notes and appropriate statutory regulations and codes of practice.
- Application study, site layout study, collecting the data regarding product to be handle & providing the conceptual design & final DAP (design approval) from the customer.
- Design of products with help of SOLID WORKS and AutoCAD.
- Designing, Modelling, Assembly and creating drawings of whole system by considering strong concepts such as DFM , DFA , DFS etc.
- Making Bill of material and releasing manufacturing drawings

SOFTWARE SKILLS:

SPECIALIZATION: MELFA Works, RT ToolBox 3, ANSYS14.1 &ANSYS 12., C/C++ Basics.

*FEA analysis with Design (Structural, Thermal & couple field, model, vibrational.... etc.)

Design Software Skills: Solid works 2017, AutoCAD 2017, Solid Edge, Disegna 4.0-fluid, MELFA Works,

RT ToolBox 3 CatiaV5, Pro-E Wildfire 4.0, Mat lab, DFMEA TOOL.

Self-Mechanical Design Projects:

- 1. Robotics Automation Systems – Glue dispensing, Pin insert, Pick & Place, Machine tending, etc.**
- 2. Automatic Airflow Measurement System in “Cummins India” (Kothrud).**
- 3. Conveying System Design.**

Design the Dynamic Check Weighers, Belt Conveyor, and Screw Conveyor.

- 4. Valve Packer Machine.**

Educational Qualification:

Bachelor in Mechanical Engineering.

Qualification	University/ Board	Year of Passing	Institution/College	Percentage	Class
BACHELOR IN MECHANICAL ENGINEER	University of Pune	2012-16	NBN Sinhgad School Of Engineering Pune	66.86%	First Class with Distinction
HSC	M.S.B Higher secondary education, Pune.	2011-12	Shri Shivaji Vidyamandir, Pune	63.67%	First Class
S.S.C	M.S.B secondary education, Pune	2010-11	Nrisinh High School, Pune	87.27%	First Class with Distinction

Engineering Project:

Title: Experimental Investigation of Jet Impingement for Heat Transfer Enhancement.

Description:

This project is related to the study of the jet impingement system with different types of nozzles with different diameter on different types of test surfaces. This Analysis is to calculate the maximum heat transfer enhancement.

Personal Information:

Date of Birth: 22nd June 1994

Language : English, Marathi, Hindi

Hobbies : Reading, Playing Badminton, Playing Cricket, Swimming

With Best Regards,

Tushar Karanjule.