

# CURRICULUM VITAE

**AMOL HARI METKARI**

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## OBJECTIVE

To work in a firm with a professional driven environment. Where I can utilize and apply my knowledge & skills which would enable me as a graduate to grow while fulfilling the organizational goals.

## Profile Summary:

Qualified Mechanical Design Engineer, **6Years** of work Experience in **Product Design, Design & Development/ R&D/Project management.**

Skill Set	Expertise
Medical Device & Automation(Special purpose machine)	-Competent & Dynamic Professional with rich experience in Product Design, Design & Development, Project management, Prototype, Manufacturing Engineering, Lay outting & Document. -Planning, executing, managing, cost, time, scope, Design Document & Quality, with the responsibility.
Standard & Regulation	-Familiar with Standards:1)ISO 13485-2015 Medical Device QMS, 2)ISO 14971 Risk management (Risk management Plan & Report, DFMEA etc) 3) IEC 60601 Series (60601-1, 60601-1-2 etc). 4) Verification & validation, IQ, OQ & PQ. 5) EU-MDR 2017/745 (European union medical device regulation). 6)ISO-10993 Biological Evaluation, 7)IMDR 2017 (CDSCO) -Proven Strength in problem solving & coordination with the capability to work under pressure.
Project timeline & Cost	-Achieving design completion in planned timeline. -Design Planning, Input, Output, review, Verification & Validation and Design Transfer. -Verifying design using calculation, CAD tools & simulation tools to minimize prototyping . -Identifying vendors with shortest lead time & distribute parts among them. -Achieving development within determined cost. -Support for proposal & Estimation of potential Enquiries.
Design Processes	-Adherence to inputs provided in ERD, regulatory requirements & Industrial Design Inputs. -Prepare & participate in Design & Process FMEA. -A well versed experience in multi cad tool like Solid Works, UG-NX, Solid Edge, Catia (3D & 2D), ERP Software like Office 365(Teams) & SIB.
Engineering Processes	-Conformance to Part Development Process by providing inputs to cross functional stakeholders using predetermined tools. -Customer/Supplier support on technical topics, concept, production design, drafting process improvement, cost saving & Quality. -Maintaining BOM with required fields with Proto & Production Cost -On time Completion of Part Specification Sheet, Vendor Capability Criteria, ECNs, DHF & Deviation Notes.
Cross functional Collaboration	Planning design verification activities with T&V team & also Collaboration with Hardware team for integration. Collaborate with Prototyping team by providing BOM, drawings, part identification & assembly steps. -Worked individually & as part of team. -Participate in & present at department level meetings, project status & problem solving Solution. -Design of prototype device for Testing & validation. -Good communication skill & grasping ability.
Award	-Pat on the Back Award,2022.

## I) Employment Particular:

**Organization:** Noccarc Robotics Pvt Ltd.

**Period of Service:** Oct 2020- Till Date

**Post Held:** Mechanical Design Engineer.

### Responsibilities:

- Medical Devices (Med-Tech) & Cleaning Robot.
- New Product development & its process
- Optimizing design Concept to meet performance/ Reliability requirements.
- Adherence to input provided in ERD.
- Engineering calculation, Identification & Selection of best suitable material for medical device.
- Design complex equipment & prepared test plans and modified design if required.
- Design of Prototype device for testing & validation.
- Detailed Designing & Drawing of Sheet metal, Machined, Plastic Parts, Fixture, structure, Various sub-Assembly & Assemblies by using Cad software.
- Detailed electrical wire routing, Coordinate with Electronic, Electrical & Firmware team for component selection & there placement in device.
- Building 3D printed parts Prototype & handling proto failure problems with customer at “proto stage”.
- Documentation work for test reports, machine detail & Design review.
- Upgrade existing design & releasing the Updated drawing.
- Up to date Bill of Material & Engineering change Note.
- Vendor Selection preference technically, Material Sourcing for Prototype device & Costing
- Good Skill in GD & T and Tolerance stack up.
- Follow up with Customer, Supplier & internal team to achieve deadline.
- Worked as 3D printing machine (Forms) Coordinator.
- Good Communication Skill & grasping ability
- Data management by using Teams (Office 365) & PDM.

## PROJECTS HANDLED

1. Neonatal Ventilator
2. Oxygen Concentrator
3. Advanced ICU Ventilator
4. High Flow Oxygen therapy Device
5. Solar Panel Cleaning Robot

## II) Employment Particular:

**Organization:** Unikraft Techno LLP.

**Period of Service:** Aug 2017- Sep 2020

**Post Held:** Design Engineer.

### Responsibilities:

- Special Purpose Machine.(Automation)
- Actively coordinate with sales & customer to understand the requirement for developing them in to meets the need of business.
- Prepare complete mechanical design concept & full 3D CAD models with detailed design & 2D drawing from concept stage to manufacturing or Final stage.
- Prepare 2D & 3D Assemblies & Sub-Assemblies design layout, fabrication, machined & Sheet metal part drawing with complete BOM, GD & T, Surface finish, analysis of fit.
- Engineering Calculation & Selection of material.
- Prepare BOM, G.A.(General assembly) drawing & e-drawing of design concept for production, assembly and manufacturing purpose.

- Design, development & modification as per customer's requirement & their standards.
- Validating design concept by calculation & develop cost effective & reliable innovative solution for new & existing design.
- Communicate & coordinate designed concepts & its results with team member & Technical Experts.
- Prepare technical & Non-Technical document include proposal costing, Commercial offer, Technical offer, user manual, Project execution plan, technical limitation & Inspection report.
- Selection of Various Bought out Item (e.g.-Pneumatic cylinder, Hydraulic cylinder, gear Box, Motor, Ball Screw, L.M. Rail, Drag Chain & Safety Equipment's.
- Data management by using SIB.

## PROJECTS HANDLED

1. 4-Axis CNC Machine.
2. Vertical Post Tube and washer welding machine.
3. Welding Positioner- 50KG.
4. Wire Cutting & Feeding Machine.
5. Hydraulic Ferrule Swaging Machine.
6. Welding Head.
7. Hydraulic Pneumatic Test Bench.

## EDUCATIONAL QUALIFICATIONS

- ❖ Bachelor of **Mechanical Engineering** 2017 .
- ❖ Institute: D. Y. Patil School of Engineering Academy (Pune University).
- ❖ Marks in Final year (B.E. Mechanical) – 60 % overall during June-2017.
- ❖ CAD Tool : Certified course **UG NX-10** from CAD/CAM Guru Pune, **Draughtsman Mechanical** from Smart Brain (P.M.K.V.Y ) Pune

## PERSONAL DETAILS

- ❖ Name : Amol Hari Metkari
- ❖ Date of Birth : 24<sup>th</sup> Dec.1995
- ❖ Languages Known : English, Hindi, and Marathi.
- ❖ Marital Status : Unmarried.
- ❖ Present Address : 133/1 Room no-204, Balaji krupa, Gurudwara Chowk, Near Akurdi Railway station, Akurdi.411035.
- ❖ Permanent Address : At. Zinjewasti Post. Piliv Tal. Malshiras Dist. Solapur.413310.

**AMOL METKARI.**