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## SUMMARY

Mechanical Design Engineer with 6 years of experience in design, development and manufacturing of Energy, Oil & Gas (Piping), Aerospace & Heavy Industries products. Deeply worked on Vacuum Piping, Ambient Vaporizers, Aircraft Coupling Bearings, Links and Assemblies with the usage of CAD Software like SolidWorks, UG NX, CATIA, ABAQUS & ANSYS. Also holding certificate in SolidWorks Mechanical Design Expert.

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## EXPERIENCE

### 1. Design Engineer Chart Industries Inc.

October 2020 - Present  
Hyderabad, India

It's also referred business unit **VRV Asia Pacific Ltd.** In India providing the engineering & manufacturing services in Energy, Industrial Gas including upfront engineering, service and repair.

#### Key Responsibilities Handled:

- Working with a team of 12 engineers, to design and develop the piping 3D model and vaporizers as per customer requirement and similarly creation of customer and Manufacturing drawings.
- Developing of automation process to create the ambient vaporizers of storage gas plant by using drive works to create, modify models and process them speedy and effectively.
- Creation of GAS Vacuum Jacketed Piping (VIP) in the oil & gas plant installation model customer and manufacturing drawings as per the internal piping company standards.
- Ambient Vaporizers Model Assembly and their respective drawings, BOM and manufacturing process documents to release on shop floor for production.
- New Product Development of Trailers, Mini Storage Bulk Tanks for the gasses like CO<sub>2</sub>, Hydrogen, Argon and Oxygen to refill and store at the required Oil & Gas purposes.
- VIP (Vacuum Insulated Piping) Routing standard parts and their manufacturing drawings based upon the pipe sizes to utilize for future and maintain in the PDM.
- Ambient vaporizer's individual part drawing creations and streamlined the procedure to create the part & assembly drawings, BOM and link with further projects.

### 2. Jr. Design Engineer NOX Engineering Pvt Ltd

February 2018 – September 2020  
Hyderabad, India

NOX Engineering supports **NMB MINEBEA UK LTD** (A MinebeaMitsumi Inc. Company) in Product Engineering, Production Design and Tram Bearing Manufacturing.

#### Key Responsibilities Handled:

- Worked with a team of 7 engineers in Product Engineering & Production Design unit to oversee Aerospace Bearings, Heavy Vehicle bearings, links and Tram bearings design development and engineering.
- Working experience on major next-generation Aerospace projects is Spherical bearing designs of AIRBUS A350-1000, COMAC C929, BOMBARDIER C Series, SAFRAN and Tram Bearings.
- Modelling and drafting of the test rig setup of Static, Fatigue and Endurance tests, Manual calculation of Radial/Axial loads, review of QTP's and suggesting the amendments as per company design standards.
- Evaluate & demonstrate manufacturing feasibility and technical justification for Tram bearing design approach; conduct design validation & manufacturing, achieved the proven and feasible process of minimal errors.
- Responsible for factory work flow, Raising Purchase Orders, Crating of Traveler Card, PCD, PCP, PFC, Creating Stage Drawing, Quality Checking and Creating COC documents for dispatching orders.
- Worked on Worm & Helical Gears, Rack & Pinion, Power gear trains and other power transmission system.
- Supported in the AS9100 Rev D, BSI Certification Annual Audit documentation & updating internal procedures.
- Worked with the team on Research topics to create the PPTs and documenting of the Titanium Technology, 3D printing of hollow ball, Coating classification and it's REACH compliant.

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## SCHOLASTIC CREDENTIALS

2014 – 2017	Bachelor of Engineering in Mechanical M.J.C.E.T, <b>Osmania University</b> , Hyderabad   Aggregate <b>83.7%</b>
2011 – 2014	Diploma in Mechanical Engineering <i>Govt. Polytechnic Nizamabad</i> , <b>S.B.T.E.T</b>   Aggregate <b>80.9%</b>
2011	Golden Jubilee High School, Nizamabad   <b>85.1%</b>

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## INDUSTRIAL EXPERIENCE / PROJECTS

Internship   <b>Police Transport Organisation</b> , D.M.R.T.T.I, T.S – Hyderabad	<i>February - March, 2017</i>
▪ 2 months of training of Heavy Duty & Automobile Vehicle's modification and working maintenance system	
In-Plant Industrial Training   <b>Ordnance Factory Medak</b> , Ministry of Defence, GOI	<i>September - October, 2016</i>
▪ Overview of Armored Military Vehicle assembly & manufacturing of the tools and fixtures on CNC machines	
Industrial Training   Prakash Hyundai Pvt Ltd, Nizamabad	<i>December 2013 - May 2014</i>
▪ 6 Months of Diploma final year industrial training program in servicing of Automobile vehicles & their workflow	

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## TECHNICAL PROFICIENCIES

Software	SolidWorks 2022, UG NX9, CATIA V5 R16, CREO, Drive Works, and AutoCAD 2016
	PLM Enovia SmarTeam, PDM Vault, ERP Infor software, QMS Software and Basics exposure in ANSYS & ABAQUS
Research & Design Project	Developed the cooling system of Electric Step-down transformer to update the existing design and provide the suitable heat transfer. Minimal changes into the design and material which reduces the overall manufacturing cost.
	Project on Performance Analysis and Fabrication of Non-Conventional Refrigeration system based on Working principle of Peltier Effect, & achieved the temperature 4°C within the enclosed space.

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## ADDITIONAL INFORMATION

- **Certification:** Certified Solid Works Mechanical Design Expert **Certificate ID: C-2SDK8Q3NWH**  
Certified in **CSWPA** Weldment, Sheet Metal, Mold Making, Surfacing & Drawing  
Design course on **CATIA V5, UG NX9**, Static Analysis in ANSYS at ENGG CADD CENTER.
- **Software:** Working proficiency in MS Office Suite and good typing speed upto **67 WPM**.
- **Desktop Publishing (DTP):** Passionate in the Graphic Designing, PPT Presentation and documenting.
- **Hobbies:** Photography, Vehicle Riding, Motivating and guiding students in their career path, Calligraphy and watching new technology innovation in the world around
- Interested in travelling and relocating for the need of an organization to achieve exceptional experience and Interacting with dynamic personalities
- Participated in the SAE BAJA Vehicle assembly and responsible for the design, analysis, fabrication and testing of Braking System of an All – Terrain Vehicle

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## PERSONAL INFORMATION

Passport Details	:	P9714642
Date of Birth	:	22 <sup>nd</sup> February 1996
Marital Status	:	Single
Languages	:	English, Urdu, Telugu & Hindi
Present Address	:	Humayun Nagar, Mehdiapatnam, Hyderabad 500028