Hashim Khan

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Summary

Experienced engineering professional with more than 6 years of practice in product design, prototyping, 3D printing, and manufacturing. Demonstrated success in intricate and manufacturing sectors, consistently bringing value and creative solutions to Design, Problem-solving, Product Strategy, and manufacturing planning.

Core Competencies

- Product Design
- IIoT Product design
- Vendor Management
- GD & T
- NPD
- Project Planning
- Simulations
- Detailed drafting
- Prototyping
- Defense Manufacturing
- SPM
- FMEA
- Manufacturing
- Documentations
- CAD-CAM
- Process Planning

Experience

Bharat Forge Limited, Kalyani Group
Assistant Manager, MTB Department (Tool design and Defense Manufacturing) ***June, 2023- current***

- Pioneering machine tool design, simulations, and orchestrating the fabrication of substantial parts for Special Purpose Machinery (SPM).
- Architecting comprehensive engineering control strategies for defense manufacturing particularly centered on advanced Barrel development technologies.
- Devising meticulous Inspection Test Plan sheets meticulously tailored for Quality Assurance teams on-site testing.
- Strategizing complex manufacturing process operations, ensuring meticulous planning and seamless execution.
- Developing the end-to-end spectrum of defense tooling and fixtures, from innovative design through precision manufacturing to rigorous testing.
- Project planning and adeptly managing vendor relationships, ensuring seamless project execution.
- Extensively using CAD tools for design and simulations like Solid edge, Siemens NX, Solidworks

KSMS Technologies Solutions Pvt Ltd, Kalyani Group
Engineer R&D ***Aug* 2020- June 2023**

- Managing automation and IIoT projects within the shop floor environment (Forging, Machining).
- Crafting intricate automation systems for a spectrum of forging & machine shops for Bharat forge.
- Devising optimized workflows to enhance shop floor operations.
- Seamlessly integrating modern technology into traditional machinery for digitization.
- Actively contributing to cross-sector Industry 4.0 R&D initiatives.
- Employing advanced modeling techniques to dissect heavy machinery dynamics.
- Designing eco friendly plastic solutions catering to both Industry 4.0 and medical domains.
- Engineering automated component inspection systems, featuring robotics.
- Architecting predictive maintenance strategies alongside functional enclosures.
- Demonstrating proficiency in 3D CAD, prototyping, basic python programming, and problem-solving.
- Collaborating closely with experts to ensure accurate machine data.
- Managing diverse teams and vendor relationships across multifaceted projects.

Beauto Systems
Mechanical Designer ***Jan* 2020- Aug 2020**

- R&D in the company's first robotics project and setting up the labs.
- Creating algorithms and workflow of AGVs, Robotic arms for warehouses, hospitals, and Battery charging farms.
- Designing & fabrication of parts, assembly, and testing in workshop facility.
- Working on system simulations, material selections, and mathematical modeling simulations for the systems.
- Working and coordinating with clients.
- Designed various food process automation systems.

Footloose Labs
Mechanical Product Developer

***April* 2019- Aug 2019**

- Collaborating within the design core team for 5-6DOF arm and pharmacy warehouse automation.
- Conducting precise engineering calculations for machine parts optimization.
- Leveraging MATLAB, Octave, SolidWorks, and Ansys for intricate design and simulation tasks.
- Managing vendors and meticulously organizing inventory.
- Overseeing the fabrication and rigorous testing of prototypes.

Inspired Automation Future technologies
Design Engineer ***June 2018- Mar 2019***

- Collaborating with the Government of Gujarat at Roboseum, part of Gujarat Science City, to create an engaging Robotics museum spanning history to modern innovations.
- Responsible for designing and testing intricate robot components using SolidWorks software; utilizing advanced 3D printers for prototypes.
- Contributing to the design and simulation of diverse robotic systems, including Arm Manipulators and Rotary Platforms.
- Key role in recruiting skilled professionals from prestigious institutions like IITs, NITs, bolstering team capabilities.
- Precise management of Workshop and FABLAB tools and resources for seamless operations.
- Proficiently overseeing multiple Robotics Teams, cultivating collaboration and ensuring successful project outcomes.

Aliyance Mechatronics
Design Engineer ***July 2017- June 2019***

- Collaborating with the Government of Gujarat at Roboseum, part of Gujarat Science City, to create an engaging Robotics museum spanning history to modern innovations.
- Responsible for designing and testing intricate robot components using SolidWorks software; utilizing advanced 3D printers for prototypes.
- Contributing to the design and simulation of diverse robotic systems, including Arm Manipulators and Rotary Platforms.
- During ALROCO project, my engineering efforts center around exclusive technologies aimed at revitalizing and automating the construction sector.
- Precise management of Workshop and FABLAB tools and resources for seamless operations.

Education

Dr APJ Abdul Kalam Technical University **July 2013 – July 2017**
Bachelor of Technology- Mechanical Engineering

Certifications & Trainings

- INDUSTRY 4.0 – BHARAT FORGE LTD (JULY 2022)
- PYTHON FOR MECHANICAL ENGINEERS – Decibel labs(NOV 2021)
- CSWP-SOLIDWORKS PROFESSIONAL – Dassault Systems(NOV 2019)
- MATLAB Onramp- Math works (NOV 2019)
- SOLIDWORKS – I CAD CAM SOFTWARE SOLUTIONS. (NOV 2016)
- PRO-E WILDFIRE 5.0 – I CAD CAM SOFTWARE SOLUTIONS (OCT 2016)
- AutoCAD – I CAD CAM SOFTWARE SOLUTIONS. (MAY 2014)