



Hashim Khan

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● WORK EXPERIENCE

AUG2020–CURRENT–Pune, India

ENGINEER R&D–KALYANI STRATEGIC & MANAGEMENT SERVICES, Kalyani Group

- Project management & Ownership for various automation and IoT sensor deployments on the shop floor.
- Planning automations system design (mechanical) for small to heavy forging machine shops.
- Developing workflow and shop floor automation process.
- Technology integration of conventional machines towards complete digitalization.
- Working in R&D team for Industry 4.0 innovative product solutions for the industries.
- Developed Kinematics and Dynamic models of heavy machines.
- Developing plastic products for industry 4.0 and medical devices.
- Development of an automated component inspection system – robotic gripping and marking systems.
- Working on predictive maintenance product designs, enclosures, for the industries.
- Hands on experience of Additive manufacturing, CNC machining, wood working, glass cutting, assembly, prototyping, Testing, 2D/3D CAD designs, Simulations and engineering calculations.
- Python programming for data visualization and mathematical modeling.
- Problem understanding in the forging industry and coming up with a possible reliable solution.
- Machine sensor data verification with shop floor SME.
- Feature engineering for the forging presses and other machines.
- Vendor management and team managing under various projects.

JAN2020–AUG2020–Pune, India

MECHANICAL DESIGNER–BEAUTO SYSTEMS

- 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.

MAR2019–SEP2019–Bengaluru, India

MECHANICAL PRODUCT DEVELOPER–FOOTLOOSE LABS

- Working within the design core team for 5-6DOF arm and warehouse automation (Pharmacy).
- Engineering calculations on machine parts.
- Using MATLAB, Octave, Solidworks and Ansys for designing and simulation.
- Vendor and inventory management.
- Fabrication and testing of prototypes.

JUL2017–MAR2019–Pune, India

DESIGN ENGINEER–ALIYANCE MECHATRONICS

- Working with the Government of Gujarat (Gujarat Science City Project) at Ahmedabad on various robotic systems.
- Work includes the design of complex parts and assemblies in Solidworks and printing those using advanced 3D printers to produce prototypes.
- Designed and Simulated Various Robotics Systems like Arm manipulators, Rotary Platforms, and Industrial Prototypes.
- My engineering work at ALROCO focuses on proprietary technologies for the modernization and automation of the construction industry.
- Taking responsibility for technical recruitment for the company.
- Maintaining the Workshop's and FABLAB's inventory.

- Team Management with various robotics teams.

● PUBLICATIONS

Enhancing mechanical properties of jute fibre/glass fibre and epoxy combined hybrid composite laminates

- <https://www.researchgate.net/publication/322384100> Enhancing mechanical properties of jute fibre/glass fiber and epoxy combined hybrid composite laminates—2018

Robotic Arm Joint Gearbox comparison

- <https://www.researchgate.net/publication/335467255> Robotic Arm Joint Gearbox comparison

Importance of Soil tests

- <https://www.researchgate.net/publication/328631561> Importance of Soil tests

● 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)
- CATIA V5 R20- Udemy (OCT 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)

● HONOURS AND AWARDS

FEB 2016

AutoCAD Design Challenge—Krishna Institute of Technology

- Given task of 2 mechanical component designs in Isometric projection and 3D model. College Level Design quiz winner.

FEB 2016

AutoCAD Mechanical design challenge—Dr. APJ Abdul Kalam Technical University- Zonal Level

- Given task of 3 mechanical component design in Isometric projection, Orthographic projection and 3D Modeling. Winner at Zonal Level Design quiz.

● EDUCATION

JUL 2013–JUL 2017–Lucknow, India

BACHELOR OF TECHNOLOGY (Mechanical Engineering)—Dr. APJ Abdul Kalam Technical University

(College- Krishna Institute of Technology, Kanpur City, India)

● HOBBIES AND INTERESTS

Stargazing
Cycling
Trekking

● PORTFOLIO - <https://scienaut.github.io/>