



Hashim Khan

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● WORK EXPERIENCE

AUG2020–CURRENT–Pune,India

ENGINEER R&D–KALYANI STRATEGIC & MANAGEMENT SERVICES

- 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.
- Working towards the development of an automated component inspection system.
- Working on predictive maintenance product designs for the industries.
- Python programming for data visualization and mathematical modeling.
- Working towards factory digitization (Digital twin).
- 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 them 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 fiber and epoxy combined hybrid composite laminates

- https://www.researchgate.net/publication/322384100_Enhancing_mechanical_properties_of_jute_fibreglass_fiber_and_epoxy_combined_hybrid_composite_laminates—2018

Robotic Arm Joint Gearbox comparison

- Robotic Arm Gearbox https://www.researchgate.net/publication/335467255_Robotic_Arm_Joint_Gear_box_comparison

Importance of Soil tests

- https://www.researchgate.net/publication/328631561_Importance_of_Soil_tests—

● CERTIFICATIONS

- 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 college quiz winner.

FEB 2016

AutoCAD Mechanical design challenge–Dr. APJ Abdul Kalam Technical University

- 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

● HOBBIES AND INTERESTS

Stargazing
Cycling
Trekking