

IMRAN MOHAMMED

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PROFILE

Mechanical Engineer with extensive Quality and Design knowledge and expertise in line operation. Motivating and energetic, providing empowering team leadership with commitment to quality. Well-versed in inspection and troubleshooting. Dedicated Manufacturing professional with history of meeting company goals utilizing consistent and organized practices. Skilled in working under pressure and adapting to new situations and challenges to best enhance the organizational brand. with experience in Solid Works, Ansys, Auto CAD, Space Claim, Matlab, MakerBot, Ultimaker Cura, Microsoft Office.

EDUCATION

University of New Haven

West Haven, CT

Master of Science, Mechanical Engineering

May 2023

Coursework: Computer aided Engineering, Advanced Fluid Mechanics, Applied Conduction Heat Transfer, Modern Manufacturing, Additive Manufacturing.

Osmania University

Hyderabad, India

Bachelor of Engineering, Mechanical Engineering

October 2020

PROFESSIONAL EXPERIENCE

Quality Assurance Engineer

April 2019 – May 2021

Silicon Mines & Minerals

Hyderabad, India

- ✓ Reviewed and validated quality requirements for manufacturing planning, supplier purchase orders and engineering specifications to meet contract compliance regulations.
- ✓ Performed quality control audits on pre-production supply chain, verifying continuity of raw materials.
- ✓ Expanded risk management measures through spot-checking and increased randomization of inspections.
- ✓ Prepared reports on recorded performance metrics of Products, highlighting unacceptable deviations.
- ✓ Supported quality team members during corrective action updates.

Internship

September 2018 – March 2019

Bharat Dynamics Limited

Hyderabad, India

- ✓ Read and interpreted blueprints, technical drawings, schematics, and computer-generated reports.
- ✓ Tested prototypes and standard products and drafted reports to document results.
- ✓ Used statistical process control (SPC) methods to detect and analyze manufacturing process data and apply process changes.
- ✓ Completed manual adjustments and tooling changes in absence of automatic programming of CNC Machine.
- ✓ Produced high-quality documents, spreadsheets, and presentations for internal and customer facing needs.

Research Assistant

August 2017– September 2018

Osmania University, Dr.Dhanraj Parmar J

Hyderabad, India

- ✓ Analysis of Manufacturing of FRP Composites by Abrasive Jet Machining using Taguchi Method.
- ✓ Manufactured a New FRP plate using two different Materials by using Handy Lay-up Process.
- ✓ Performed Drilling Operations on the Plate by Abrasive Jet Machining.
- ✓ Studied on the process parameters such as Stand out distance (SOD), S/N Ratio, Nozzle Pressure.

ACADEMIC PROJECTS

University of New Haven: *Designing and fabrication of a bridge using 3D printing*

August 2022

- ✓ The challenge was to construct a lightweight bridge which can hold up to 20 lbs weight upon it
- ✓ Solid works simulation was done on the bridge to find the least weight of the bridge which can hold up to a weights of 20 lbs.

University of New Haven: *Designing and Fabrication of Mechanical Clock Using 3D printing*

August 2022

- ✓ SolidWorks is used to design the parts of the Mechanical Clock.
- ✓ All the parts were printed using a 3D printer and assembled as per the design.

University of New Haven: *Manufacturing a Small Robot Toy Car*

March 2022

- ✓ Designing a small robot car that should travel back and forth 2 meters from point a to point b in a straight line.
- ✓ The program was Installed in the Arduino Chips which controls the driving motion of the car.

University of New Haven: *Vertical Axis wind Turbine*

March 2022

- ✓ Designed a Vertical Axis Wind Turbine which can generate power up to 300 Watts.
- ✓ Simulation was done using Ansys before going for 3D printing
- ✓ All the parts were fabricated using 3D printers.

University of New Haven: *Fluid Mechanics on Hydro Planning*

September 2021

- ✓ The cause and the effect of Hydro planning
- ✓ The relation between tire pressure and hydroplaning velocity
- ✓ Studied on the various parameters such as water film depth, tire thread distance, tire thread width, and the effect of V-shaped tire threads.

Osmania University: *Design & Manufacturing of Solar Scooter*

September 2020

- ✓ Led a team of 4 students to design and Manufacture of Solar Scooter
- ✓ The only Unique thing was the batteries can be charged either from the solar or any of the power stations.

CERTIFICATIONS AND HONORS

- ✓ I have Participated in the workshop “Missile Systems Technology” at DRDL (Defense Research and Development Laboratory)
- ✓ Certified AutoCAD drafter by the State Govt. of India

September 2020

December 2018