UMAR SHAFIQ AHMAD

B.E. (Hons.), Mechanical Engineering, 2022

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CGPA: 7.6

SKILLS

- **CAD/CAM**
- **CATIA**
- **Siemens NX**
- **SolidWorks, Creo**
- **MATLAB**
- **Ansys**
- **Robotics**
- **Mechatronics**
- **Python**
- **Machine Learning**
- **IOT**
- **Communication**
- **Presentation**

EDUCATION

B.E. (Hons.), Mechanical Engineering
Birla Institute of Technology & Science Pilani, Hyderabad
Aug 2018 - May 2022

Robotics & Automation (Minor)
BITS Pilani, Hyderabad
Aug 2020 - May 2022

Higher Secondary School
Mount Litera Zee School, Jhansi
Apr 2015 - May 2017

SUMMARY

I am a BITS Pilani Hyd Graduate with BE Mechanical Eng. and Minor degree in Robotics and Automation. Did a 6-month internship at Bajaj Auto Pune and have projects in Mechatronics, Robotics etc. Looking for job in Design, Mechanical and Robotics discipline.

INTERNSHIP

Bajaj Auto Ltd, Pune: Planned Maintenance

Jul 2021 -Dec 2021

- Conducted research, gathered information from multiple sources and presented results.
- Worked on the Project: **Establishing IOT for Sustenance & Quality Improvement**.
- **Implemented** IOT monitoring in Manufacturing Process by assessing the CTQ parameters.
- Sustained IOT Monitoring Software, Thingworx Framework and MT Link and brought about **New Configurations**.

Plastic Water labs, Bengaluru

May 2020 -Jun 2020

- "Defect Analysis using Machine Learning".

PROJECTS

Development and Design of a Door Sealing Mechanism - Robotics
Analysed three different Automatic Mechanism to sliding door sealing operation and Composed **working animations** in PTC Creo. Finalised the best suited.

Defect Analysis using Machine Learning
Developed a Machine Learning model which identifies the defect associated with the captured image of a bottle. Participated in continuous improvement by generating suggestions, engaging in problem solving activities to support teamwork.

Automated Impulse Impact System for Structural Dynamics – Mechatronics
Designed the mechanism of an Impact Excitation System (IES) including flexure body and Arduino controlled circuit for actuation. **Assembled** the 3D printed parts mounted with piezoelectric force sensor and an electromagnet.

Establishing IOT for Sustenance & Quality Improvement - IOT.
Worked in sorting out the problems identified in IoT connected processes in monitoring on Thingworx Platform and Fanuc MT Link software connections.

VOLUNTEER EXPERIENCE

Worked as a **Liaison officer** in Publicity team of **BITSMUN** Hyderabad Organizing Committee