# SUHAIB AKHTAR

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## EDUCATION

### Jamia Millia Islamia, Delhi, IN, Class of 2021

· Bachelor of Technology in Mechanical Engineering (2017- 2021)
· CPI – 9.66.

### M.B.D.A.V Sr. Sec. School, Delhi, IN, Class of 2017

· Higher Secondary School Certificate (CBSE) (2016-2017)
· Percentage – 84.6%

### Amrita Public School, Delhi, IN, Class of 2015

· Senior Secondary School Certificate (CBSE) (2014-2015)
· CGPA – 9.6

## EXPERIENCE

### TestRight Nanosystems Pvt. LTD.

*Product Development Engineer (24th August, 2021 to ---)*
Roles and Responsibilities:

1. Mechanical Sheet metal Design (SolidWorks) and manufacturing related work.
2. Worked on prototyping using FDM 3D printer.
3. Learnt to work with 3D printers, soldering and sheet metal, molding, laser cutting.
4. Worked on different projects i.e., Nanowell, Milk Tech, TIKO, ATOM.

### Auton Systems Pvt. Ltd.

*Mechanical Engineer Intern (5th April, 2021 to 5th Ju*ne, 2021*)*
Roles and Responsibilities:

1. Mechanical design and manufacturing related work.
2. Market visit, research and part procurement.
3. Business development related task including content making (PPT, Documents, Excel), tech sales call, etc.
4. Learned different manufacturing processes like Compression molding, Over Molding, Injection molding and Vacuum Casting.

### Jal Nigam, Lucknow, UP

*Mechanical Engineering Intern (18th December, 2019 to 18th January, 2020)*
Roles and Responsibilities:

1. Learnt the mechanism behind the tube wells used to pump the ground water.
2. Learnt how these tube wells are planted.

### IRCON INTERNSHIP LIMITED, Rail (Modern) Coach Factory, Rae Bareli Project

*Production Engineering Intern (30th May, 2019 to 11th July, 2019)*
Roles and Responsibilities:

1. Learnt the production process of a railway bogie.
2. Visited different shops like Shell, Bogie, Wheel & Axle, Furnishing, paint and finally the finishing shop.

## PROJECTS

1. **Minor and Major Project (Final year Graduation)**
   (August, 2020 to June, 2021)
   1. In Minor Project we had designed the five-finger robotic gripper which is tendon spring actuated and controlled by servo motors and Arduino.
   2. As our Major project we worked on the mechanical simulation of the gripper and the tendon used in this. The complete simulation was done in ANSYS Mechanical. We have done the static analysis of our gripper.

2. **AAKRUTI 2020**
   (August, 2020 to November, 2020)

This is a design competition. In this we worked as a team of 2 members and our theme is Medical Device with Innovation. We designed a protective kit for medical staff which is more suitable than the PPE kits.

3. **Indian Karting Championship Season 4**
   (July, 2019 to March, 2020)

· This is a Go-karting championship. We participated in this championship as a team of 23. My role in this is the Team Manager, designing and simulation of kart and fabrication of steering system. The complete designing was done in SolidWorks and the simulation was done in ANSYS Mechanical and ANSYS Fluent. We have done the Static simulation in ANSYS Mechanical and the CFD analysis was done in ANSYS Fluent.

## PROFESSIONAL TRAINING

1. **SolidWorks** 2020
   *by Intern Shala (2020)*

## CERTIFICATION

1. **CSWA-Mechanical Design**
   *by Dassault Systèmes (2020)*
2. **CSWAP-Drawing Tool**
   *by Dassault Systèmes (2020)*
3. **CSWAP-Weldment**
   *by Dassault Systèmes (2020)*
4. **A Hands-on Introduction to Engineering Simulations (ANSYS)**
   *by Cornell University at edx. (2020)*
5. **Autodesk CAD/CAM/CAE for Mechanical Engineering**
   *by Autodesk at Coursera (2020)*
6. **CSWA-Additive Manufacturing**
   *by Dassault Systèmes (2020)*
7. **3DEXPERIENCE - 3D Creator**
   *by Dassault Systèmes (2020)*
8. **3DEXPERIENCE - Collaborative Business Innovator**
   *by Dassault Systèmes (2020)*
9. **Programming for Everybody (Getting Started with Python)**
   *by University of Michigan at Coursera (2020)*
10. **Python Data Structures**
    *by University of Michigan at Coursera (2020)*

## OTHER EXPERIENCE AND ACHIEVEMENTS

- **CHEMCHORD 2018 - University School of Chemical Technology, GGSIPU**
  Worked as the campus ambassador of the events. (2018)
- **Qualified GATE 2021 (Mechanical Engineering)**
- **Qualified IIT-JEE Mains and IPU-CET 2017**

## SKILLS

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|---|---|
| **Languages** | English, Hindi |
| **Software** | AutoCAD, SolidWorks, Creo, Catia, ANSYS, Fusion 360, Keyshot, Basic programming with C, Python |
| **Machines** | Lathe, Shaper, Hand Grinder, Drill machine, 3D Printer (FDM), Soldering |

## REFERENCE

**Prof. M.M Hasan**, (Automobile and IC Engine), Dept. of Mech Engineering, mmhasan@jmi.ac.in
**Prof. Mohd. Suhaib,** (Robotics and Automation), Dept. of Mech Engineering, msuhaib@jmi.ac.in