

MOHD ZIYA

S-1A/23, Joga Bai Extension 🏠
Jamia Nagar, New Delhi

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EDUCATION

Bachelor in Mechanical Engineering | Jamia Millia Islamia

2016 – 2020

Result Awaited

Diploma in Mechanical Engineering | Jamia Millia Islamia

2013 – 2016

80.67%

Intermediate | ICSE Board

2012 – 2013

68.5%

High School | ICSE Board

2010 – 2011

82.8%



EXPERIENCE

Project Associate | Indian Oil Corporation Limited, R&D Centre

AUGUST 2016 – PRESENT

In-charge of renewable hydrogen laboratory in Solar Energy Department of IOCL

- In-house operation and maintenance of instruments such as Spray pyrolysis, Heat transfer evolution, air compressor, etc.
- Weather monitoring system to identify optimal atmospheric conditions (Humidity, temperature, solar irradiation, etc.) to calculate incident solar radiation on solar panels and their effects on efficiency.
- Training internship students on renewable hydrogen generation.
- In-charge of providing a safe work environment and establishing the standard operating procedure for various machinery.
- Expert in various coating methods such as atomic spray pyrolysis, electro-deposition, spin coater, dip coater, etc.
- Expertise in data collection, visualization and presentation.



PROJECTS

Title: Renewable H₂ Generation using solar water splitting (Duration-4½ yrs)

- Renewable hydrogen generation in Reactor through solar panels in open environment.
- Synthesis of Photo-electrodes such as Fe₂O₃, BiVO₄, Cu₂O etc.
- Testing the efficiency of electrodes for Hydrogen generation using simulated sunlight in the 3-electrodes photo-electrochemical system using Potentiostat.
- Quantifying the evolved hydrogen using Gas-Chromatography.

Role: Project In-charge

Title: Dual-axis autonomous and self-power generating Solar Tracker (BE Mech.)

- Design and develop a low cost, dual-axis solar tracking system devoid of microprocessors and sensors to harvest maximum solar radiation.

Role: Project Leader

Title: Single Slope Water Distillation System (During Diploma Engineering)

- Development of a system which utilizes solar energy to remove salts and other impurities from water.
- An efficient and low-cost alternative for the rural population without electricity.

Role: Project Leader



INTERNSHIP

Organization: Central Workshop, Delhi Transport Corporation, New Delhi.

Topic Covered: Knowledge of various parts of the vehicle.

Duration: One Month



SKILLS

- AutoCAD
- M.S Office
- SolidWorks
- Java Programming



ACHIEVEMENTS

- Participant of the winning team of 3rd year in Basketball at Annual Sports Meet, 2016.
- Vice-Captain of the runner up team of 3rd year in Volleyball at Annual Sports Meet, 2016.
- Participant of the winning team of the 2nd year in Basketball at Annual Sports Meet, 2015.
- Participant of the runner up team of 2nd year in Volleyball at Annual Sports Meet, 2015.
- Participated and winner of Robo-Race competition of All India Techno-Cultural festival, Algorhythm, 2015.
- Runner-up of Science Quiz Competition at District Level 2011-2012 (Representing School).



HOBBIES

- Playing Basketball
- Cycling
- Listening and singing songs



DECLARATION

I do hereby declare that the above information given by me is true to the best of my knowledge, and I shall provide certificates if required.

Place: New Delhi

(MOHD ZIYA)

Date:

