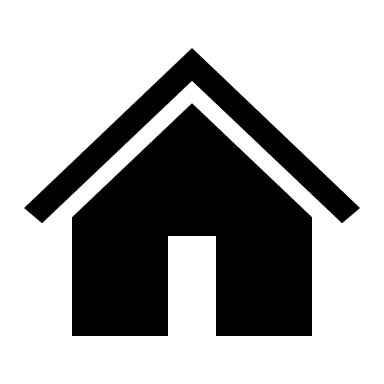
**MUHAMMAD HUMAIS ZIA SIDDIQUI**





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# OBJECTIVE

* To pursue a challenging position in a reputed Organization wher[e I can utilize my](mailto:humais.zia@gmail.com) designing knowledge and skill acquired from practical and academic experiences.

# EDUCATION

## B.E | MECHANICAL | NED-UET | 2015-18 | WASHINGTON ACCORD ACCREDITED

* **Majors:** IC-engines, Gas Turbine, Machine Design and Production Engineering

· **CGPA:** 3.38

## A-LEVELS | CAMBRIDGE ASSESSMENT INTERNATIONAL EDUCATION (U.K) | 2014

### Gold Medallist | Awarded by Beacon House School System

* **AS-level:** 3 A (Chemistry, Mathematics, Computing)
* **A-level:** 4 A (Chemistry, Mathematics, Computing, Physics)

## O-LEVELS | CAMBRIDGE ASSESSMENT INTERNATIONAL EDUCATION (U.K) | 2012

### Silver Medallist | Awarded by Beacon House School System

* **4 A\*** (Physics, Chemistry, Mathematics, Computer Studies)
* **2 A** (English, Additional Mathematics)

# CORE CERTIFICATION

## CAD/CAM PRODUCT DEVELOPER

* Have certification on product development using CAD/CAM from NED University, department of Mechanical and Manufacturing Engineering.

## Mechatronics with Arduino

* Have completed Mechatronics course with hand-on experience of Arduino and various sensors.

# SYSTEM DESIGN AND PROJECTS

## MATERIAL HANDLING SYSTEM | MAPAK EDIBLE OILS (pvt.) Ltd.

* Designed and Simulated a complex material handling system on SOLIDWORKS following ***CEMA*** and ***IRF standards*** for ***MaPak Edible Oils (Pvt.) Ltd.*** warehouse to transport, pack and stack meal (by-product of edible oil) using 'conveyors' (screw and belt) and 'structure pallet racking system' such that the *FIFO* managing criteria can be implemented. The design included sheet metal work, weldments, assembly features, static and buckling tests along with a complete animation to showcase the workflow of new system. Drafted and detailed all drawings with BOM for tender, fabrication, assembly and installation.

## DISSOLVED WATER OXYGEN LEVEL ENHANCER

* Designed a water oxygen level enhancer on SOLIDWORKS and fabricated a prototype wind powered mechanical system for enhancing dissolved oxygen level in commercial fish ponds which shall improve the growth of fishes without the use of expensive feed.

## NED FORMULA RACERS

* Helped a formula racing team for an international formula competition, Formula North – Canada, to design and test multiple parts of race car before they can be manufactured or 3D printed.

## 

## MAZE SOLVING ROBOT

* Arduino based robot which finds correct path by avoiding obstacles using multiple Sonar Sensors.

## LINE FOLLOWING ROBOT

* A Non-Microprocessor controlled line following robot which follows a defined path. The project won the Science Olympiad held at Beacon House Gulshan A-levels and was applauded for its unique and novel working principle.

# WORKSHOPS AND SEMINARS

## CPD Seminar by DADEX and MARLEY-UK

* + Attended UK approved CPD seminar on Pipe Work Design by DADEX Pakistan and MARLEY-UK.

## Workshop Dye Sensitized Solar Cell

* + Hands on Experience of making Dye Sensitized Solar Cell conducted by Green Society at NED-UET

## Society Member ASME

* + Worked as a member of American Society of Mechanical Engineers (ASME) for a year in 2014.

# SKILLS AND ABILITIES

## Development Tools and Languages

* Solidworks CAD/CAM (Certified | NED-UET)

# AWARDS AND HONOUR

* **Prime Minister Laptop Scheme** | 2018 | NED-UET
* **Gold Medallist** | A-Level | Beacon house school
  + JAVA
  + Arduino
  + HTML / CSS / JS
  + HAP
  + MATLAB

## LEADERSHIP

(Certified | TUSDEC)

(Certified | NED-UET) (Certified| COURSERA) (HVAC)

system

* **Silver Medallist** | O-Level | Beacon house school system
* **Scholarship** | 50% As-Level | Beacon house school system
* **Scholarship** | 100% A-Level | Beacon house school
* Society Head in A-Levels (2013-14)
* Team leader for Maze solving robot
* Project head Final Year Project

system

* **Winner** | Science Olympiad | Line Following Car | Beacon house school system
* **Winner** | Chess | ASME Sports Fiesta | NED-UET