

MD MURAD HOSSAIN KHONDAKER

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PROFESSIONAL EXPERIENCE

Environmental Fluid Mechanics Research Group

Department of Civil and Environmental Engineering, University of Houston

Graduate Research Assistant

August 2021- PRESENT

Bangladesh Power Development Board

Ghorashal 4th unit CCPP, Narsingdi, Bangladesh

Assistant Engineer

July 2017 - July 2021

- Shift-In-Charge, Operation of Combined Cycle Power-plant
- Perform mechanical, instrumentation & control system (I&C) maintenance
- Work with GE Mark IV & Mark VIe control system and ABB Symphony plus control system.

Bangladesh China Power Company (Pvt.) Limited

Potuakhali, Bangladesh

Assistant Engineer

Feb 2017 - July 2017

- work as Site Engineer for installation of 1320 MW coal based thermal power plant.

Runner Automobiles Limited

Mymensingh, Bangladesh

Senior Executive R&D

Oct 2016 - Feb 2017

- Install, operate Chassis Dynamo meter for two & three wheeler.
- Conduct performance tests of vehicles on international (IDC, WMTC & others) & customized drive cycle.

EDUCATION

B.Sc in Mechanical Engineering

Bangladesh University of Engineering and Technology (BUET);

–GPA: 3.45 out of 4.00 (Class Position: 63 out of 201)

February 2011 - March 2016

FIELD OF INTEREST

Computational Fluid Dynamics, Environment, Renewable Energy, Machine Learning, Thermal Engineering.

PUBLICATIONS/UNDERGRADUATE THESIS

Md Murad Hossain Khondaker, Areef Ahmed & Sumon Saha. *Numerical simulation of turbulent heat transfer from wavy plate-fin heat sinks*, AIP Conference Proceedings 2324, 050032 (2021) <https://doi.org/10.1063/5.0037537>

ACADEMIC PROJECTS

Md Murad Hossain Khondaker, Khadija Mahbuba. Automatic paper sorting machine.

Supervised by: Kazi Arafat Rahman

–Sort out papers automatically using a belt drive and AVR microcontroller according to page number for stapling from photocopy machine.

SKILLS AND INTERESTS

CAD/CAM/FEA/Design

Simulation Software

Programming Languages

Data Acquisition/Analysis and other Softwares

Power-plant Control system

Controllers

SolidWorks, AutoCAD

Comsol, Proteus

C, C++, HTML, Python

Excel, Matlab, Tecplot, Latex

GE Mark IV, Mark VIe; ABB Symphony Plus

PLC, AVR microcontrollers

INTERNSHIP/ PROFESSIONAL TRAININGS/ ONLINE COURSES

Machine Learning A-Z™: Hands-On Python & R In Data Science, Udemy	January, 2021
Machine Learning, Stanford University Online Course, Coursera	January, 2021
2020 Complete Python Bootcamp From Zero to Hero in Python, Udemy	November, 2020
Operation and Maintenance Training on Ghorashal 4th unit Combined cycle Powerplant, Guangdong Power Engineering Corporation, CEEC, Guangzhou, China	November 2018 - January 2019
ABB Symphony Plus Control System for Combined Cycle Power Plant, ABB, at Fenchuganj CCPP, Sylhet, Bangladesh	September 2018
Industrial Attachment, Energypac Engineering Limited, Dhaka, Bangladesh	February 2016
Programming of PLC for Industrial Automation, Engineering Stuff College, Bangladesh	16 October - 17 November, 2016
Workshop on "Smartbotics", KC Robotics & Embedded Pvt. Ltd.	27-28 September, 2012

AWARDS & HONORS

Bangladesh Education Board Talent-pool Scholarship

- Full tuition waiver from government with biannual stipends for outstanding result at 8th, 10th and 12th grade

BUET Technical Scholarship

- Annual stipend for undergraduate study

Won 1st Prize at 'Induction Training'

- Professional training among newly recruited 85 engineers at Engineering Academy, Kaptai, Bangladesh Power Development Board.

EXTRA-CIRRICULAR

- Member of voluntary blood donating club '**Badhan**'; donated and managed blood several times for emergency patients using clubs social network.
- Co-organizer of inter-departmental gaming contest 'Gaming Contest 2015' on 'Mechanical Fiesta 2015'; festival organized by '**Mechanical Association**', BUET.