

MD. FARHAN TANVIR

+8801826-828060 ◇ Titumir Hall, BUET, Dhaka, Bangladesh

1710058.me.buet.ac.bd ◇ www.linkedin.com/in/farhan-tanvir-8b13181b5 ◇ www.github.com/farhantanvirhridoy

EDUCATION

Bachelor of Science

Mechanical Engineering, Bangladesh University of Engineering and Technology

Dhaka-1000, Bangladesh

March, 2018 - Present

HSC

Science, Rangpur Govt. College

Rangpur, Bangladesh

July, 2015 - June, 2017

SSC

Science, Burimari Hasar Uddin High School

Burimari, Lalmonirhat

January, 2013 - January, 2015

TECHNICAL SKILLS & EXPERTISE

Programming Language

Python, MATLAB, C, Visual Basic for Excel

CAD Modeling

SolidWorks, AutoCAD

SolidWorks

Simulation, Flow Simulation, Motion Study, Design Study

Ansys

Machanical, Fluent, CFX

Microsof Office

Word, Excel, Powerpoint

Web Development

HTML5, CSS, JavaScript, Django Framework

Microcontroller

Arduino, Raspberry Pi

Circuit Modeling

Proteus, TinkerCAD

Plotting tools

Tecplot 360

Other

Git, Latex, Linux, HTRI, 3E Plus

EXPERIENCE

Industrial Training

2022

The IBN SINA Pharmaceuticals Company Ltd.

Gazipur, Dhaka

- Observed and study HVAC system of Cephalosporin Dept.
- Studied Boiler, Air Compressor and their functions
- Studied the functions of various machines associated with production
- Developed some management skills

Member

2021

BUET Robotics Society

BUET, Dhaka

Member

2021

BUET Innovation and Designing Club

BUET, Dhaka

PROJECTS

Smart Home: Build a project using arduino for home automation. Here we control the door system by measuring body temperature of incoming person, control fan and air cooler by measuring temperature and humidity, control water pump by measuring water level of water tank. There are also some security systems. If there occurs fire or gas leakage inside the home, an alarm is ringing and a notification is sent to owner of home via mobile network. We also develop an android app to control all of our home elements manually by Bluetooth communication ([link](#))

Shell and tube heat exchanger for marine application: Design a shell and tube heat exchanger and model this. It can be used for marine engine cooling by sea water. Capacity, Size and efficiency is optimized by HTRI. Insulation is calculated by 3E Plus

Result System: Build a project that can be used for grade sheet maker in school and college level institution in Bangladesh. Python is used here. Individual marksheet and full result sheet is created after run the project. ([link](#))

Online Quiz App: Build a project using django framework, HTML5, CSS and JavaScript. Here student can register and participate MCQ exam. They can see their previous result also. ([link](#))

Cuttly URL Shortener: This is simple program of url shortener using cuttly api and sqlite. ([link](#))

RESEARCH INTEREST

- Numerical Analysis
- Structural Analysis
- Heat Transfer
- Refrigeration and air conditioning
- Fluid Mechanics
- Computational Fluid Dynamics (CFD)

RELEVANT COURSEWORK

- Excel Skills for Business Specialization (Coursera)
- Excel/VBA for Creative Problem Solving (Coursera)
- Python for Everybody Specialization (Coursera)
- Introduction to Programming with MATLAB (Coursera)

REFERENCE

Dr. Muhammad Ali
Professor
Department of Mechanical Engineering
Bangladesh University of Engineering and Technology
Dhaka-1000, Bangladesh
Email: mali@me.buet.ac.bd

Dr. Ashraful Islam
Professor
Department of Mechanical Engineering
Bangladesh University of Engineering and Technology
Dhaka-1000, Bangladesh
Email: aislam@me.buet.ac.bd