



# Dipen Shome

## Mechanical Engineer

Mechanical Engineering graduate from Bangladesh University of Engineering and Technology, ability to work in a high stress and fast paced environment with hands on experience in Mechanical Design and Simulation Softwares.

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📍 Dhaka, Bangladesh

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## EDUCATION

### B.Sc in Mechanical Engineering

Bangladesh University of Engineering and Technology (BUET)

05/2012 – 08/2017

CGPA: 3.00 (on a scale of 4.00)

#### Relevant Coursework

- Thermodynamics
- Nuclear Engineering
- Heat and Mass Transfer
- Fluid Machinery
- Machine Tools
- Power Plant Engineering
- Fluid Mechanics
- Control Engineering
- Production Process
- Machine Design

### Higher Secondary School Certificate

Chittagong College

08/2009 – 02/2011

GPA: 5.00

#### Courses

- Science

## EXPERIENCE

### Assistant Engineer (R&D)

Energypac Engineering Ltd.

10/2017 – Present

Dhaka, Bangladesh

Energypac is one of the leading power engineering companies in Bangladesh.

#### Achievements/Tasks

- works in the Research & Development team of Medium and High Voltage Air Insulated Switchgear (AIS) and Gas Insulated Switchgear (GIS).
- design and modification of component and developing prototype of AIS and GIS before going into mass production.

### Intern

General Electric Manufacturing Company Limited (GEMCO)

08/2016 – 09/2016

North Patenga, Chittagong

Transformer Manufacturing Company

#### Achievements

- achieved hands on experience on "Manufacturing Process and Testing of Distribution Transformer" for a period of one month.

### Scientific Tour

Bangladesh Atomic Energy Commission (BAEC)

10/2016

Savar, Dhaka

Nuclear Reactor Facility for Research Purpose

#### Achievements

- gained practical knowledge on various components of a Nuclear Reactor Facility.

## SOFT SKILLS

Microsoft Office Products



Solidworks 3D CAD



ANSYS Simulation



PCTAN



Tecplot 360EX



MATLAB



## PUBLICATIONS

Poster Presentation

- attended a Poster session on "**Analysis of Main Steam Line Break Accident in a VVER-1000 Nuclear Power Plant**" in 2nd International Bose Conference 2015 held at University of Dhaka.

Conference Paper

- "**Simulation of Steam Generator Tube Rupture Accident in a Pressurized Water Reactor**" accepted at **International Congress on Advances in Nuclear Power Plant (ICAPP 2018)** organised by **American Nuclear Society (ANS)**.

## THESIS & PROJECTS

**Thesis:** "Design Basis Accident Analysis of Pressurized Water Nuclear Reactor"

- simulation and analysis of 4 Design Basis Accident (DBA) occurred in a PWR Nuclear Power Plant using PCTAN under the supervision of Dr. M.A.R Sarkar

**Project:** Quadcopter with "Live Video Streaming" functionality through "Skype"

- completed this project as a "Team Leader" as per requirement of "Instrumentation and Measurement" course. Open source CC3D Flight Controller is used to control flight dynamics. The quad can lift upto 3 lbs payload.

## LANGUAGES

- Bangla
- English

## REFERENCES

**Prof. Dr. Engr. M.A. Rashid Sarkar, Ph.D.**

Professor, Department of Mechanical Engineering  
Director, Institute of Nuclear Power Engineering (INPE)  
Bangladesh University of Engineering & Technology (BUET)  
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I, hereby solemnly declare that all the above information is correct to the best of my knowledge and belief.