

# MST. NUSRAT YASMIN

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Gazipur, Bangladesh

## Academic Qualification

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- **Bachelor of Science in Mechanical Engineering**  
Chittagong University of Engineering & Technology (CUET)  
Mar 2013 – Oct 2018  
CGPA: **3.13** out of **4.00** (66.67%)  
(**3.51** in last 60 Credits)  
WES CGPA: **3.30**
- **International English Language Testing System (IELTS)** Overall: **7.0** (R: **7.5** L: **6.5**, S: **6.5**, W: **6.5**)
- **Graduate Record Examination (GRE)** Overall: **300** (Quantitative: **159**, Verbal: **141**, AWA: **3.0**)

## Professional Experience

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Officer (Engineering Department)

November 2019 - Present

**Healthcare Pharmaceutical Ltd.**

- **Project Validation:** HVAC, Water System and Factory Acceptance test for Water System.
- **Industrial Automation:** Machine Vision, PLC and HMI based automation system design, programming.
- **Documentation:** In house documentation following WHO, ISO and BP guidelines.

## Research Experience

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### Undergraduate Research:

**Research Title:** “Design and Fabrication of a self-balancing Robot using inverted pendulum system”

**Research Description:** A research work done in designing, fabrication and performance analysis of a two wheeled balancing robot.

**Research Supervisor:** Dr. Md. Tazul Islam

Chittagong University of Engineering and Technology (CUET)

### Publications:

[1] “Accident Prevention Smart Zone Sensing System” IEEE *Region 10 Humanitarian Technology Conference (R10-HTC)*, 2017.

[2] “Design and Fabrication of a low-cost customizable modern CNC laser cutter”, 2022 (Submitted)

## Research Interest

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- Additive Manufacturing
- Material Science
- Mechatronics
- Rapid Prototyping with CAD.

## Language Proficiency

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- **English** (Fluent working proficiency)
- **Bangla** (Native Language)

## Technical Skills

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- **Programming Language:** Python, C, and FORTRAN.
- **Design Software:** Ansys, SolidWorks, and AutoCAD.
- **Simulation Software:** MATLAB Simulink

## Professional Training

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- **Energypac Engineering Ltd, Baruipara, Dhaka (3 Weeks Internship).**  
Electrical Substation parts such as Transformer, PFI, Switchgear manufacturing

## Extra-curricular Activities

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### Voluntary Organizations:

- **Robo Mechatronics Association (Joint Organizing Secretary)** Sep 2017-Oct 2018  
Activities: Arranging robotic contests, robotic training, robotic research, technical seminars and workshops.
- **IEEE Student Branch CUET (WIE Director-Affiliated Group)** Feb 2017-Sep 2018  
Activities: Arranging robotic contests, technical training, robotic research, technical seminars and workshops.
- **CUET Career Club (Office Secretary)** Sep 2017-Oct 2018  
Activities: Arranging job fair, technical contests, career based contests, career based seminars.

### Robotic Contests Attended:

- **International Autonomous Robotic Challenge, 2017 (Team Leader):** Maze solver Robotic Contest.
- **RMA Roborace, 2016 (Team Leader):** Autonomous Robot and Maze solver robotic contest.
- **International Autonomous Robotic Challenge, 2016 (Team Leader):** Maze solver Robotic Contest.
- **RMA Robo Rush (Team Leader), 2015:** Robotic Car Race.

## References

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- Dr. Sajal Chandra Banik  
Professor  
Dept. of Mechanical Engineering, CUET  
M.Sc. in Mechatronics (Germany),  
PhD in Robotics & AI (Saga University, Japan)  
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- Dr. Md. Abu Mowazzem Hossain  
Assistant Professor  
Dept. of Mechanical Engineering, CUET  
M.Sc. in Mechanical Engineering (UOU,  
South Korea);  
PhD. In Additive Manufacturing (UOU,  
South Korea);  
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