

Radif Uddin Ahmed

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Professional Experience

Assistant Manager (Engineering Department)

July 2019 - Present

Renata Limited.

- **Project Management:** Process flow, Cleanroom, HVAC, Floor layout design and implementation.
- **Maintenance:** Chiller, Cooling Tower, Pump, HVAC, Air Compressor, Water Treatment Plant, Production Machine Maintenance.
- **Industrial Automation:** Machine Vision, PLC and HMI based automation system design, programming and Maintenance.
- **Documentation:** In house documentation following BP, USP and WHO guidelines.

Research Experience

Undergraduate Research:

Research Title: “Design and Fabrication of a Low Cost Customizable Modern CNC LASER Cutter”

Research Description: A research work done in designing, fabrication and performance analysis of a Low Cost CNC LASER Cutter.

Research Supervisor: Syed Masrur Ahmmed

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] “A Web based Vehicle Condition Monitoring and Safety Scheme” *International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering*, 2018.

[3] “Performance Analysis of Nylon Made Vortex Tube” *International Conference on Mechanical, Industrial and Energy Engineering*, 2018.

[4] “Performance Analysis of Hydroxy Gas Generator by Varying Conditions of Electrolyte Concentration, Temperature and Time” *International Conference on Mechanical, Industrial and Energy Engineering*, 2018.

[5] “Design and Implementation of a Dual Axis Solar Tracker for Maximum Power” *National Conference on Energy Technology and Industrial Automation*, 2018.

Academic Qualification

- **Bachelor of Science in Mechanical Engineering** CGPA: **3.22** out of **4.00** (68.40%)
Chittagong University of Engineering & Technology (CUET) (3.86 in last 40.50 Credits)
Mar 2013 – Nov 2018

- **International English Language Testing System (IELTS)** Overall: **7.0** (L: **7.5**, S: **7.0**, R: **7.0**, W: **6.5**)

Language Proficiency

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

Technical Skills

- **Programming Language:** Python, C, and FORTRAN.
- **Design Software:** AutoCAD, and SolidWorks.

Professional Training

- **Energypac Engineering Ltd, Baruipara, Dhaka** (3 Weeks Internship).
Electrical Substation parts such as Transformer, PFI, Switchgear manufacturing
- **TICI, Ghorashal, Narshingdi** (1 Week Training).
Non Destructive Testing (NDT) methods overview.
- **IICT, CUET** (1 Month Training).
HTML, CSS, PHP, Wordpress training.

Extra-curricular Activities

Voluntary Organizations:

- **Robo Mechatronics Association (Vice President)** Sep 2017-Oct 2018
Activities: Arranging robotic contests, robotic training, robotic research, technical seminars and workshops.
- **IEEE Student Branch CUET (Director-Research)** Feb 2017-Sep 2018
Activities: Arranging robotic contests, technical training, robotic research, technical seminars and workshops.
- **CUET Career Club (General Secretary)** Sep 2017-Oct 2018
Activities: Arranging job fair, technical contests, career based contests, career based seminars.
- **Career Ki (Campus Ambassador)** Apr 2018-Oct 2018
Activities: Arranging career based seminars and workshops.

Achievements:

- **Champion**, MakerFest, 2018.
- **Runner up**, International Soccerbot Contest, 2016.
- **Runner up**, ME Day-CAD Contest, 2016.
- **Best Designer**, RMA Robo Rush, 2015.

Robotic Contests Attended:

- **MakerFest, 2018:** Technical project contest.
- **NASA Human Exploration Rover Challenge, 2018 (Mechanical Designer):** Human Rover making contest.
- **Mine Sweeper Contest, 2017 (Mechanical Designer):** Mine finding robotic contest.
- **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.
- **ESAB International Soccerbot contest (Team Leader), 2016:** Robotic Football Contest.
- **RMA Robo Rush (Team Leader), 2015:** Robotic Car Race.
- **AUST Engenious (Team Leader):** Line Follower Robot competition.

References

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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