

# Radif Uddin Ahmed

143, East Paikpara, Brahmanbaria, Bangladesh.

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## Professional Experience

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Senior Officer (Engineering Department)

Jul, 2019 - Present

**Renata Limited.**

Responsibilities: Industrial Machine Vision and Automation R&D (Research and Development).

## Research Experience

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### Undergraduate Research:

Research Title: “*Design and Fabrication of a Low Cost Customizable Modern 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

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Bachelor of Science in Mechanical Engineering

Chittagong University of Engineering & Technology (CUET)

Mar, 2013 – Oct, 2018

CGPA: 3.22/4.00

## Technical Skills

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

## Language Proficiency

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

## Extra-curricular Activities

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### 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:

1. **MakerFest, 2018**: Technical project contest.
2. **NASA Human Rover Contest, 2018 (Mechanical Designer)**: Human Rover making contest.
3. **Mine Sweeper Contest, 2017 (Mechanical Designer)**: Mine finding robotic contest.
4. **International Autonomous Robotic Challenge, 2017 (Team Leader)**: Maze solver Robotic Contest.
5. **RMA Roborace, 2016 (Team Leader)**: Autonomous Robot and Maze solver robotic contest.
6. **International Autonomous Robotic Challenge, 2016 (Team Leader)**: Maze solver Robotic Contest.
7. **ESAB International Soccerbot contest (Team Leader), 2016**: Robotic Football Contest.
8. **RMA Robo Rush (Team Leader), 2015**: Robotic Car Race.
9. **AUST Engenious (Team Leader)**: Line Follower Robot competition.

### 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.

## 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)  
Email: baniksajal@cueta.ac.bd

Syed Masrur Ahmmed (Thesis Supervisor)  
Assistant Professor  
Dept. of Mechanical Engineering, CUET  
B.Sc. in Mechanical (CUET),  
M.Sc. in Mechatronics (IIUM, Malaysia)  
Email: masrur@cueta.ac.bd

Dr.Md. Sanaul Rabbi  
Associate Professor  
Dept. of Mechanical Engineering, CUET  
M.Sc. in Mechatronics (CUET);  
PhD. In NDT (Saga University, Japan);  
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