

SHAHID AHAMED HASIB

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[LinkedIn](#), [Google Scholar](#), [Resume](#),
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INTERESTS

System and Control, Robotics, Deep Learning, Aerospace, Power Systems, and Embedded Systems.

EDUCATION

- **Rajshahi University of Engineering and Technology (RUET), Bangladesh** Feb 2017–Oct 2022
Bachelor of Science (BSc) in Mechatronics Engineering
CGPA: 3.69/4.00, Merit Position: 2nd
Undergraduate Thesis: Oct 2021–Oct 2022
Title: Li-ion Battery Remaining Useful Life Prediction Using Convolution Neural Network and Bat-optimizer. Supervisors: [Dip Kumar Saha](#), [Md. Firoj Ali](#)
GPA: 4.00/4.00
- **King Fahd University of Petroleum & Minerals** January 2024
Master of Science (MS) in Systems and Control Engineering.

WORK EXPERIENCES

- **Graduate Research & Teaching Assistant** January 2024
King Fahd University of Petroleum & Minerals
Supervisor: [Dr. Adnan Shakoor](#)

INTERNSHIP AND TRAINING

- **Banglalink Digital Communications Limited.** Jan 2023–April 2023
Infrastructure Service Management Department Intern.
Worked with Power Architecture Management and Data Centre team. My team was responsible for ensuring continuous power supply in telecommunication site and data analysis.
- **BSRM: Bangladesh Steel Re-Rolling Mills Limited.** May 2019–Jun2019
Industrial Training: Production (SMS), Power, Electrical, Mechanical, PLC, and Automation sector.
Worked on continuous casting machine and furnace process control with industrial PLC.

PUBLICATIONS

- **Referred Journal Paper:**
 1. “A comprehensive review of available battery datasets, RUL prediction approaches, and advanced battery management”. IEEE Access, Q1.
 - Review of Battery Management Systems and battery data sets that are commercially available.
 - Comprehensive analysis of Battery state estimation and RUL prediction approaches.Link: <https://ieeexplore.ieee.org/abstract/document/9454160>
- **Conference Papers:**
 1. “Driving Range Prediction of Electric Vehicles: A Machine Learning Approach”.
 - EV driving range is predicted with machine learning models.
 - A novel ML based method of driving range prediction of EV is applied.Link: <https://ieeexplore.ieee.org/abstract/document/9667927>
 2. “Real-Time Recognition of Bangla Sign Language Characters: A Computer Vision Based Approach Using Convolutional Neural Network”.
 - A Computer Vision-based model is proposed that can translate Bangla Sign Language into text.Link: <https://ieeexplore.ieee.org/abstract/document/9718800>

PUBLICATIONS

▪ **Submitted Manuscript:**

1. Hasib SA, Islam S, Ali MF, Md Mehedi Hasana, Saha DK, S. I. Moyeen. “Lithium-ion Battery Remaining Useful Life Prediction Using CNN with Bat Optimizer”. (As First Author).
2. Sihab Uddin, Prangon Das, Sarafat H. Abhi, Anika Shama, Hasib SA, Islam S, Musfiq Alam, Maeenul A. Akhand, “Intelligent QR Code Based User Authentication System”.
3. Hasib SA, Muhammad Majid Gulzar, A. Shakoor, “Electric Vehicle Driving Range Prediction: A Deep Learning Approach.” (As First Author).

POJECTS ACCOMPLISHED

1. **Mars Rover Project:** Team Name: “Team-Ogrodoot” Nov 2018–Dec 2019
 - Designing the mars rover and simulation. Circuit Design and Control.
 - During the 2019 edition, I lead the Mechanical crew of the “Team-Ogrodoot”.Link: <https://www.facebook.com/ogrodoot.ruet>
2. **Deep Learning Based Detection System:** A computer vision project. Mar–2022
 - Developed a deep learning-based detection system.
 - The system is built with CNN and public data sets.GitHub: https://github.com/ShahidHasib586/OpenCV_Projects_Face-and-Object-Detection
3. **Humanoid Robot Prototype (Arduino, Raspberry Pi):** April 2017–Dec 2019
Under the observation of department of Mechatronics Engineering of RUET.
 - Manipulator Design with servo mechanism.
 - Integrating sensors, use voice module, and AI to generate voice feedback.Link: <https://shahidhasib586.wixsite.com/shahid-ahamed-hasib/projects>
4. **Line Following Robot, Battle Bot, Arduino Based Rader System.** Jun 2017–Sept 2019
 - Participated into many national robotic competitions.
 - Working on PCB board, designing bots using SolidWorks.GitHub: <https://github.com/ShahidHasib586/LFR-Battle-Bot-Arduino-Based-Radar-Syatem>
5. **Authentication System.** Jan 2022–Oct 2022
An intelligent QR Code Based User Authentication System using Raspberry Pi.
 - Designing the system, taking Data through the webcam and developing the model.
 - Generating QR code using Python “qrcode” library.GitHub: <https://github.com/ShahidHasib586/User-Authentication-System>

TECHNICAL SKILLS

Programming Languages	Python, C, C++
AI	Machine Learning, Deep learning, Machine Vison
Design Software	SolidWorks, AutoCAD, Blender3D
Typesetting	LaTeX
Hardware	PLC, Micro-Controller, Arduino
Simulation and Modelling	Proteus, Simulink, MATLAB
Graphics Design, Editor	Illustrator, Movavi, After Effects, Audacity

ACADEMIC HONORS AND ACHIEVEMENTS

- **Certificate of Academic Excellence** 2018–2022
Issued by RUET Mechatronics Engineering Department for securing the first position.
- **Technical Board Scholarship (4 times)** 2017–2020
For securing top position in the class with an outstanding academic performance
- **High Publication Award** 2020–2021
By RUET Mechatronics Engineering Department, for publishing Q1 rank journal paper.

ACADEMIC HONORS AND ACHIEVEMENTS

- **Indian Rover Challenge, IRC** 2018
Position: 6th, at VIT, Vellore, India. Participated as a team member of “Team-Ogrodoot”
- **European Rover Challenge, ERC,** 2018–2019
Place 25th (2018), 26th (2019), Kielce University of technology, Kielce, Poland.
- **Best Poster Presentation Award** 2022
First Runner-up, at MTE Day, Issued by RUET Mechatronics Engineering Department.
- **Citations of publications: 124, Google Scholar**

EXTRA-CURRICULAR ACTIVITIES

- **Organizing Secretary**, Robotic Society of RUET, RSR 2019–2022
Responsibilities includes: organizing national robotic events, organizing technical events, workshops, participating into various national robotic competitions.
- **Organizer**, “Robotronics 2019”, and “Robotronics 2.0”, A robotic fair includes 2019–2022
various robotic events: Robo Wrestling, Rover, Speed Battle, and many other events.
- **Organizer and Participant**, “Esho Robot Banai”, a national technical event. 2019
- **Mechanical Team Lead**, Responsibilities includes: leading the team and 2019
designing, conducting research. “Team-Ogrodoot”, Mars Rover Team.
- **Trainer “Blender”**, Society of Computer Aided Designers of RUET, SCADR 2019
teaching 3D modelling in Blender3D, designing various mechanical components.
- **Member of “Onuronon”**, participating into cultural events RUET Cultural Club. 2018–2022
- **Vice President**, “Greater Noakhali Association”, RUET 2021
- **Others**: Guitar Playing, Playing Chess, Sketching.

PROFESSIONAL CERTIFICATIONS

- **Machine Learning**, Offered by Stanford University, Coursera 2022
- **Deep Learning Specialization**, Coursera 2022
- **Machine Learning with python, A-Z**, Udemy 2021
- **Machine Learning for All**, Coursera 2020
- **Google IT Support Professional Certificate**, Google, Coursera 2020
- **AI For Everyone**, Coursera 2020
- **Pre-Programming: Everything You Need To Know Before You Code**, Udemy 2019
- **Programming for Everybody**, (Getting Started with Python), Coursera 2019
- **PHP Programming Language**, SoloLearn 2018

REFERENCES

Md. Firoj Ali

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Dip Kumar Saha

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