

Faysal Ahamed

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Department of Mechanical Engineering
Texas Tech University

RESEARCH INTERESTS

Focus: Enhancing Cybersecurity in Smart Devices through Advanced Control Systems. Human Cognitive load and Decision-Making Research on Vehicle Driving Simulator, Vehicle Driving Simulator's integration with dSPACE tool.

EDUCATION

Aug 2024- Present	Ph.D. in Mechanical Engineering Texas Tech University (TTU), Lubbock, Texas, USA
Feb 2015-2019	B.Sc. in Mechanical Engineering Rajshahi University of Engineering & Technology (RUET), Bangladesh

STANDARDIZED TEST SCORES

GRE: 329 (Quant: 168, Verbal: 161, AWA: 3.0)	October 6, 2021
TOEFL: 99 (Reading: 30, Listening: 28, Speaking: 17, Writing: 24)	November 1, 2023

AWARDS AND SCHOLARSHIPS

2024- Present Distinguished Graduate Student Assistantship (DGSA)

2014-2019 Technical Scholarships, RUET, Bangladesh.

ONGOING RESEARCH

Doing research on increasing cyber security to reduce cyber attacks and increase the efficiency of the Smart Homes.

RESEARCH EXPERIENCE

Undergraduate Research Work

Thesis title: Traffic signal control using a programmable logic controller (PLC)

Achieved GPA in this course: **4.00** out of 4.00

PEER-REVIEWED PUBLICATIONS

1. F Rashid, R Akbar, **F Ahamed**, Traffic Signal Control Using Programmable Logic Controller (PLC), IJSER, Vol 2 (5), 2019.
2. F Rashid, **F Ahamed**, R Akbar, Electricity Production from Piezoelectric Material Used in Traffic Road of Bangladesh, International Conference on Mechanical, Industrial and Materials Engineering 2019 (ICMIME2019) 17-19 December 2019, RUET, Rajshahi, Bangladesh.

PROFESSIONAL EXPERIENCES

Graduate Part-Time Instructor (GPTI) | Texas Tech University

August 2024 – Present

Working as an Instructor in the Dynamic System and Control Lab.

Supervisor: Dr. Seon Han

Research Assistant | Safety Human Factors and Resilience Engineering (SHARE) Lab

Supervisor: Dr. Tanushree Roy

August 2024 - Present

Junior Engineer | The Civil Engineers Limited

October 2019- November 2020

Site: Rooppur Nuclear Power Plant, Bangladesh

Work done so far: Mechanical workshop supervision, Plumbing design, and Site management.

INDUSTRIAL TRAINING

Company Name: Runner Automobiles

May 2018- June 2018

Training area: Maintenance, Overhauling, Commission & Troubleshooting of Automobiles

TECHNICAL SKILLS

Programming Language:	Python, C
Numerical Analysis:	MATLAB
Design Tool:	SolidWorks, AutoCAD
Documentation:	Office Suite, LaTeX

REFERENCES

Dr. Tanushree Roy

Assistant Professor

Mechanical Engineering Department

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Dr. Md Rabiul Islam Sarker

Head of Mechanical Engineering

Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh

Email: islamrabiul@me.ruet.ac.bd