

Md Fahad Rahman

Dhaka, Bangladesh | +880-176-097-9908 | fahad9993@gmail.com | [LinkedIn](#) | [Website](#) | [GitHub](#)

RESEARCH INTERESTS

Experimental Solid Mechanics • Smart and Viscoelastic Materials • Vibration, Acoustics, and Noise Control • Mechanical Design and Instrumentation • Computational Design and Data-Driven Optimization

EDUCATION

Jahangirnagar University (JU) <i>M.S. in Applied Statistics and Data Science (In Progress)</i>	Dhaka, Bangladesh
Bangladesh University of Engineering and Technology (BUET) <i>B.Sc. in Mechanical Engineering</i>	Expected 2027 Dhaka, Bangladesh 2012 – 2017

RESEARCH EXPERIENCE

Undergraduate Thesis <i>Bangladesh University of Engineering and Technology (BUET)</i>	2016 – 2017
Title: Modification of the Experimental Setup for Measuring Viscoelastic Response of Superelastic Shape Memory Alloy under Bending and Twisting	<i>Dhaka, Bangladesh</i>
Supervisor: Dr. M. Ashiqur Rahman, Professor, BUET	
<ul style="list-style-type: none">Designed and fabricated low-cost experimental rigs for bending and torsional testing of NiTi SMA rods.Developed an Arduino-based semi-automatic data acquisition system for real-time load monitoring.Calibrated Force Sensing Resistors and derived stress-strain relationships for bending and torsional loading.Investigated stress relaxation behavior under constant strain using Maxwell and Voigt viscoelastic models.Processed and analyzed experimental datasets using MATLAB.Demonstrated time-dependent deformation behavior of SMA under bending and torsion across multiple loading angles.	

ACADEMIC PROJECTS

Automated Library System — Robotic Book Retrieval Prototype <i>Bangladesh University of Engineering and Technology (BUET)</i>	2015
<ul style="list-style-type: none">Designed robotic chassis and claw mechanisms using SolidWorks.Fabricated mechanical components from laser-cut acrylic sheets and assembled using solvent bonding techniques.Developed Arduino-based control system for servo-driven claw actuation and platform mobility.Integrated mechanical, electronic, and control subsystems into a functional prototype.Conducted iterative testing and performance evaluation to identify design limitations.Strengthened skills in rapid prototyping, mechanical design, and robotics system integration.	<i>Dhaka, Bangladesh</i>

PROFESSIONAL EXPERIENCE

Admin and Accounts Officer <i>HISP Bangladesh Foundation</i>	Jan. 2022 – May 2022
<ul style="list-style-type: none">Digitized payroll system using Electronic Funds Transfer (EFT), reducing processing time by 70%.Developed a custom financial tracking application to streamline reporting and documentation.	<i>Dhaka, Bangladesh</i>
Administrative Assistant <i>World Health Organization (WHO)</i>	Jan. 2020 – Oct. 2021
<ul style="list-style-type: none">Supported large-scale public health programs through administrative coordination and financial management.Coordinated with government and international partners for project implementation.	<i>Dhaka, Bangladesh</i>
Administrative Assistant <i>Directorate General of Health Services (DGHS)</i>	Nov. 2017 – Nov. 2018
<ul style="list-style-type: none">Provided administrative and logistical support for multi-agency health intervention programs.Assisted in documentation, staff coordination, and compliance activities.	<i>Dhaka, Bangladesh</i>
Industrial Trainee <i>Khulna Power Company Ltd.</i>	Aug. 2016 (3 weeks)
<ul style="list-style-type: none">Observed overhaul and maintenance procedures of large Wärtsilä heavy fuel oil engines.Participated in industrial safety and operational training programs.	<i>Khulna, Bangladesh</i>

TECHNICAL SKILLS

Experimental: Material testing, sensor calibration, data acquisition systems

Programming: Python (NumPy, Pandas, Matplotlib), MATLAB, C

Hardware: Arduino Mega, Force Sensing Resistor (FSR)

Design: SolidWorks

Documentation: LaTeX

Web Development: React, Node.js, React Native, MongoDB

STANDARDIZED TEST SCORES

- GRE: 323 (Quantitative: 165, Verbal: 158, AWA: 3.5)
- IELTS: 7.5

REFERENCES

Available upon request