

# MD FAHIM FAISAL

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Cantt, Dhaka, Bangladesh

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## ACADEMIC CREDENTIALS

### Bachelor of Science in Mechanical Engineering (February 2019 – Present)

Military Institute of Science and Technology (MIST), Bangladesh

Affiliated with Bangladesh University of Professionals

CGPA: **3.87** on a scale of 4.00

Rank: **3rd** in the Graduating Class of 78 (Top 4%)

Expected date of completion: February 2023

### Higher Secondary School Certificate (2018)

Adamjee Cantonment College, Bangladesh

GPA: **5.00** on a scale of 5.00

### Secondary School Certificate (2016)

BAF Shaheen College Kurmitola, Bangladesh

GPA: **5.00** on a scale of 5.00

Achieved General Scholarship in SSC

## RESEARCH INTERESTS

Control, Automation and Robotics, Additive Manufacturing, CAD, Automobile Engineering

## RESEARCH EXPERIENCE

### Undergraduate Thesis (April 2022 – Present)

**Title:** Experimental Investigation on Thermal Performance of an Eco-friendly Improved Biomass Cooking Stove

**Supervisor:** Brigadier General Md Humayun Kabir Bhuiyan, Dean, Faculty of ME, MIST

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### Other Projects

**Title:** "PHOENIX 2.0" a Mars Rover of Mongol Barota - MIST Mars Rover Society (October 2021 - August 2022)

Associated with MIST Mongol Barota

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**Title:** A Self Balancing Cube Using Reaction Wheels Guided by Gyroscopic Effect (April 2021 - February 2022)

**Supervisor:** Dr. Dipak Kanti Das, Professor, Dept of ME, MIST

Associated with Integrated Design Project - Level 3

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**Title:** "Pollob" an Android App (2017)

Associated with Adamjee Cantonment College

## PUBLICATIONS

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“Development and Analysis of Additively Manufactured Non-pneumatic Tires for Mars Rover,” *International Conference on Mechanical Engineering and Applied Sciences (ICMEAS) Conference Proceedings, 2022.*

## PROFESSIONAL EXPERIENCE

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### Design Engineer

(November 2021 - August 2022)

MIST Mongol Barota, Dhaka, Bangladesh

#### Responsibilities

- Performed full CAD model of the rover
- Ensured the rover's proper performance for the assigned mission
- Designed manipulator's mechanism
- Validated manufacturing process

### Engineering Intern (Industrial Training)

(February 2022 - March 2022)

Bangladesh Industrial Technical Assistance Centre (BITAC), Dhaka, Bangladesh

- Organizational knowledge
- Various manufacturing process
- Management
- Advance machining

## AFFILIATIONS

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### Vice president, Technical

(May 2021 - Present)

MOTO MIST Automotive Club

- Organized Quiz competitions
- Managed campus hour and orientation programe
- Workshop on "Automobile All in All"
- Workshop on Solidworks

## CERTIFICATIONS

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- **Certified Solidworks Associate- Mechanical Design** (April 2022)  
Issued by: Dassault Systèmes
- **Web Application Technologies and Django** (September 2021)  
Course Instructor: Charles Severance Clinical Professor, University of Michigan through Coursera
- **Electric Power Systems** (July 2020)  
Course Instructor: Ilya Grinberg, Professor Engineering Technology Buffalo State College through Coursera
- **Introduction to Self-Driving Cars**  
Course Instructor: Steven and Jonathan, Associate Professor, Toronto Robotics and AI lab through Coursera

## HONORS AND AWARDS

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- **MIST Dean's List of Honor** for the excellent result in Level 1, 2, 3 and Level 4
- **University Merit Scholarship** for the excellent merit positions in Level 1, 2, 3, and 4 during undergrad study
- **3rd Place at Anatolian Rover Challenge (ARC) Ground, Istanbul, Turkey:** An international rover competition for university teams to build Mars rover. (2022)
- **3rd Best Presented Paper in Conference:** Issued by International Conference on Mechanical Engineering and Applied Sciences (ICMEAS 2022). (2022)
- **3rd Place in Poster Presentation at Mechaniverse 1.0:** Issued by Department of Mechanical Engineering, MIST. Topic: VVT-i (Variable Valve Timing with intelligence). (2022)
- **1st Place in the Competition Entitled "SOLIDWARS Advanced":** Issued by MIST Aeronautics and Astronautics Club (MAAC). (2020)
- **1st Place in Programming Contest:** Issued by NASC - Neutrino ACC Science Club. Associated with Adamjee Cantonment College. (2016)
- **Government Scholarship** from the Bangladesh Ministry of Education based on the exam result of SSC. (2016)

## SKILLS

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- Programming: Python, C, Django, LaTeX
- MS Office: Word, Excel, Powerpoint
- Software: SolidWorks (CSWA), Visualize, MATLAB, Ansys, Keyshot
- Experienced in collaboration and event management
- Dedicated and hardworking

## EXTRA-CURRICULAR/ PARTICIPATIONS/ OTHER ACTIVITIES

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- Representing Bangladesh in Anatolian Rover Challenge (ARC) Ground, Istanbul, Turkey
- Volunteer and participated in several departmental and university cultural programs such as Bangla New Year, Orientation and Farewell Events, Mechanical Engineering Day, and Conference ceremony
- Poster Presentation on VVT-i (Variable Valve Timing with intelligence) at Mechaniverse 1.0 (2022)
- Volunteer at ICMEAS 2022, Faculty of Mechanical Engineering, MIST
- Participated in various campus competition during both undergraduate and college time
- Participated in 8th Dutch-Bangla Bank-Prothom Alo Bangladesh Physics Olympiad (2018)
- Former club member at Bishwo Shahitto Kendro (2017)
- Participated in Children Science Congress (2017)

## REFERENCES

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Brigadier General Md Humayun Kabir Bhuiyan  
Dean of the Faculty (ME)  
Department of Mechanical Engineering  
Military Institute of Science and Technology  
Email: humayun4215@me.mist.ac.bd

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