

# Arnab, Sadat Khalis

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**Career Interests – Skilled & Creative in Mechanical Design, Passionate in Automobile Sector and Enthusiastic Mechanical Engineer**

**Research Interests – Automobile, EV, Internal Combustion Engine, Vehicle Dynamics, Aerodynamics, Composite Materials**

## Personal Information

Date of Birth – 17<sup>th</sup> July, 1999

Nationality - Bangladeshi

#215/5/5, Radiant Kazi Mahala, Road- 5/1

Block- A, Banasree, Rampura, Dhaka -1219

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(Preferable Contact)

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(Cell-phone)

## Academic Background

### Ahsanullah University of Science & Technology

Dhaka, Bangladesh

Bachelor of Science (B.Sc.) in Mechanical Engineering

May, 2023

Cumulative GPA: 3.089/4.00

Advisor: Dr. Fazle Rabbi

Thesis: Development and Mechanical Property Analysis of Natural Fiber and Natural Matrix Biocomposite

- Acquired Skills:
- Participation in problem-based group project works
  - Aided Design (CAD) softwares
  - Finite Element Analysis (FEA)
  - Computational Fluid Dynamics (CFD)
  - Computer Aided Manufacturing (CAM)
  - Computer Numerical Control (CNC) Machines Operation
  - Mechatronic Project Development based on Micro-Controllers

### Dhaka College, Dhaka

Dhaka, Bangladesh

Higher Secondary School Certificate (H.S.C)

March, 2018

Cumulative GPA: 5.00/5.00

Department: Science

### Ideal School & College, Dhaka

Dhaka, Bangladesh

Secondary School Certificate (S.S.C)

March, 2016

Cumulative GPA: 5.00/5.00

Department: Science

## Professional Experiences & Training

Training Title	Activities	Institute
Industrial Training	<ul style="list-style-type: none"> <li>• General Servicing</li> <li>• Diagnostics</li> <li>• OBD</li> <li>• Overhauling (Powertrain)</li> <li>• Understanding complaints</li> <li>• Organizing, maintaining service</li> <li>• Scheduling of tasks.</li> </ul>	Mitsubishi Motors Bangladesh, Rangs Workshop
Industrial Attachment	<ul style="list-style-type: none"> <li>• Overview on Conventional and CNC machining as well as part manufacturing process</li> </ul>	Bangladesh Industrial Technical Assistance Center (BITAC)
Industrial Visit	<ul style="list-style-type: none"> <li>• Overview of the whole manufacturing process</li> </ul>	Bashundhara Cement Industries Ltd.
Industrial Visit	<ul style="list-style-type: none"> <li>• Operation of Condensate Fractionation Unit (CFU)</li> <li>• Naphtha Hydro Treating Unit (NHTU)Catalytic Reforming Unit (CRU)</li> </ul>	Petromax Refinery Ltd.

### Co-Curricular Activities

- Worked as Executive Committee member at AUST Robotics Club (AUSTRC)
- Worked as Graphics Designer and Graphics team leader at AUSTRC
- Competed in the Final round of 'Kambaii Toolkit Design Competition' organized by AUST Mechanical Society with prototype 'CleanIT'
- Participated in 'HERO IGNITION 2019: National Mechanical Festival' organized by KUET
- Participated in 'Mindsparks 20' organized by AUSTIDC
- Participated in Ispahani presents MECHCELLENCE 1.0 organized by AUST Mechanical Society
- Hosted 'Aust Rover Challenge 2022' as an Organizer

### Workshops and Seminars

- Participated In seminar titled "*Electrifying The Future: A journey Towards Sustainable Mobility with Audi Bangladesh and Sentinel Technology*" hosted by IMechE AUST Student Chapter
- Participated in seminar titled "*The Science Behind Lubricating Oils and Its Application in Engineering*" by the collaboration of IMechE AUST Student Chapter and IEOM Society AUST Student Chapter
- Participated the webinar titled, "*Modelling Metallic Materials for Forming and Crash Simulation*" arranged by IMechE AUST Student Chapter
- Participated in the workshop titled "*A Brief Introduction to CFD & FEA in Engineering Application Using Ansys*" organized by IMechE Aust Student Chapter

## Analytical Skills

Universal Tensile Testing Machine (ETM), Computer Numerical Control (CNC) Machining Operation, Scanning Electron Microscope (SEM), Arc Welding (TIG & MIG), Conventional Machining Tools (Lathe, Turner, Shaper, Mill, Drill) operation, Computerized Wheel Alignment machine, Automatic Wheel Balancer

## Soft-Skills

### Excellent

- Solidworks (Certified Solidworks Associate - CSWA)
- SolidCAM
- AutoCAD
- Ansys
- MATLAB
- XFLR5
- Microsoft Office

### Proficient

- Blender
- Adobe Photoshop
- Adobe Illustrator
- Adobe Premier Pro
- Proteus Professional
- Arduino IDE

## References

- **Dr. Fazle Rabbi**  
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Ahsanullah University of Science & Technology  
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- **Mr. Hasib Md. Abid Bin Farid**  
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Ahsanullah University of Science & Technology  
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*(last updated on 8<sup>th</sup> August, 2023)*