

NAHID AHMED SHIHAB

BSc IN ELECTRICAL AND ELECTRONIC ENGINEERING
AT BRAC UNIVERSITY



☎ 01959263114 | ✉ nahidahmedshihab@gmail.com | 🌐 nahidahmed.web

Driven undergraduate at BRAC University with a strong background in Electrical and Electronic Engineering, skilled in hardware, software development and robotics automation. Successfully completed various projects and eager to contribute innovation and leadership to dynamic teams. Actively seeking opportunities for meaningful collaboration and ready for a discussion on how my expertise can benefit organization.

EXPERIENCE

NOV 2023 - FEB 2024

ZEROOZEN || A EV BASED COMPANY

HARDWARE ENGINEER || INTERNSHIP

- PCB DESIGNING - ALTIUM, KICAD, EASYEDA
- HARDWARE- POWERTRAIN, SENSORY APPLICATION
- POWERSIM, MATLAB
- THINGSPEAK IOT INTEGRATION
- TROUBLESHOOTING , TESTING & DOCUMENTATION
- FIRMWARE & CODING

JAN - APRIL 2024 || Cohort 1

ASPIRE INSTITUTE || HARVARD UNIVERSITY

- ASPIRE LEADERSHIP PROGRAM (APL)
- COHORT-01
- FULLY FUNDED LEADERSHIP DEVELOPMENT PROGRAM

ROBOTICS & Automation

- Arduino , sensors, 3D and real life implementation.
- Image processing and recognition.
- Crafting real life models .
- Coding and management.
- Model training, ML, OpenCV
- 25+ projects already been done.
- 12 Competition placements (National and International)

MS OFFICE & ADOBE

- MS Word
- MS PowerPoint
- MS Excel
- Adobe Photoshop, Illustrator, After Effects
- Adobe Mixamo

GAME DEVELOPMENT

- Unreal engine 4, Unreal engine 5 used to create complex 3D models , game environments and level design.

SKILLS

CAD & 3D MODELING

- Fusion 360 used on various projects involving , sheet metal design and molding.
- AutoCAD
- Unreal and Unity
- 3D Design and Printing used to rapidly prototype parts Created 3D models based on .
- Blender, Fusion 360
- Autodesk maya

ELECTRICAL & SOFTWARE

- PSpice, MATLAB, Proteus
- PCB designing - KiCAD, Altium , EasyEDA
- PVsyst
- Embedded C program (Atmel, PIC)
- ANSYS - Engineering Simulation Software

CODING & DEVELOPMENT

- HTML, CSS, JavaScript used to create many websites.
- C, C++, Python used to create awesome projects such as Gesture recognition and Voice assistant
- Machine Learning and Neural network

EDUCATION

BRAC UNIVERSITY || 2020 - Present

Bachelor of Science in **Electrical and Electronic Engineering**

CGPA: 3.24 out of 4.00

ADAMJEE CANTONMENT COLLEGE, Dhaka Cantonment

HIGHER SECONDARY CERTIFICATE (HSC)

2017-2019

PUBLICATIONS

“ Transformation and Future trends of Smart grid using Machine learning and Deep Learning.”

International Journal of Applied Power Engineering (IJAPE), Inclusion of Scopus, Elsevier.

“ Sizing an Off-Grid Photovoltaic system for a Regular East African Residence”

International Conference on Electrical Information and Communication Technology (EICT'23) in IEEE Explore

PROJECTS

BRACU Duburi

- Bracu Duburi, Bangladesh's First Underwater Autonomous Vehicle, has been one of the most successful student projects of BRAC University.

DRONE(UAV) & UGV Under LASSET

- Laboratory of Space System Engineering & Technology - LaSSET
- Autonomous Drone and Unmanned Ground Vehicle

NANO-SATELLITE TRAINING KIT

- A sophisticated Nano satellite model , which going to be use to educate people about the satellite technology.
- Features : Digipeater , telemetry data transmit, weather forecasting, broadcasting.

GAME DEVELOPMENT AND LEVEL DESIGN

- MADE 2 games (Not Published)
- Created 9 level design and Game Environment using Unreal Engine

FPV Drone

- Highly agile drone
- Can perform complex movement
- High speed maneuvers

TRIOKILL-Sect

- It a self operated insect killing team project. we have made 3D modeling and animation.
- Team Omnishock, Our project got 4th in Robo Nokshar Ashor

AWARDS AND CERTIFICATIONS

- VC's Recognition Awards || Volunteer
 - For extraordinary volunteering activities
- DOXPRO Robotics || Dreamtech 2020
 - 55, Balaji Plot, Rajapeth , Amravati , INDIA
 - Workshop completion
 - LORAWAN, INDUSTRY AUTOMATION
- IEEE Robotics and Automation Society & WALTON PCB || Workshop
 - Workshop completion
 - INDUSTRY AUTOMATION
 - PCB and System Design
- THE AMERICA CENTER EMBASSY OF UNITED STATES AMERICA || 20-24 JUNE 2021
 - Organized by Arduino Community of Bangladesh
 - Python Programing
 - Workshop Completion
- HP Life & HP Foundation || 8 Courses
 - Presenting data
 - Energy Efficiency
 - IT for Business success
 - Design Thinking
 - Effective Presentations
 - Unique value proposition
 - Effective leadership
 - 3D printing

- GUINNESS WORLD RECORDS || 19 SEP 2021
 - Organized by Virtualrunners
 - Most user to complete 10km run in 24 hours
 - Official part of the record holder
- IEEE Robotics and Automation Society BRACU Student Branch Chapter || Workshop
 - Workshop completion
 - Internet of Things (IoT)
 - Robot Operating System (ROS)
- FUNDAMENTALS OF LATEX || ROBU
 - LATEX
 - WORKSHOP COMPLETION
- WORLD TAEKWONDO || Seoul, South Korea
 - International DAN certificate
 - International Black Belt in Taekwondo Recognition
 - 3 international certificates
- BANGLADESH TAEKWONDO FEDERATION
 - 9 TIMES NATIONAL CHAMPIONS
 - 12 NATIONAL CERTIFICATION
 - 16 GOLD, 7 SLIVER & 4 BRONZE
 - 6 TROPIES

LANGUAGE

- SOUTH KOREAN || LEVEL - MODERATE
- JAPANESE || LEVEL - INTERMEDIATE
- GERMAN || LEVEL - INTERMEDIATE
- HINDI & URDU || LEVEL - INTERMEDIATE

HOBBY & INTEREST

- JDM CARS AND COLLECTING MODEL CARS
- DIY MODELS COLLECTING AND MAKING
- MUSIC

ASSOCIATION/ACTIVITIES

- SUB TEAM LEAD (ELECTRONICS & POWER)
 - Laboratory of Space System Engineering & Technology - LaSSET.
 - Autonomous Drone and Unmanned Ground Vehicle
- ROBOTICS
 - Secretary of Research and project management [RPM] of Robotics Club of BRAC University
 - 25+ projects, 56 certificates and awards
- Power & Electronics
 - Assistant Director of Research and Development of BRAC University Electrical and Electronic Club
- Graphics and Photography
 - Director of Graphics and Photography of BRAC University Electrical and Electronic Club
- Taekwondo || Black Belt 2nd DAN
 - Bangladesh Taekwondo Federation || (Korean Martial Arts)
 - DAN Certification form World Taekwondo federation, Seoul, South Korea.
- ROVER(UAV) BRACU DUBURI
 - Senior member of Mechanical team, BRACU DUBURI