

Nasim Mahmud Mishu

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Experience

Founding member, NSU Ignite

2018 – 2021

Dhaka, Bangladesh

- NSU Ignite is an independent robotics team representing North South University by spreading the knowledge of robotics and preparing others to compete in various competitions. I have represented this team at various contests, where we have received recognition and awards for our accomplishments.

General member, NSU ACM Student Chapter

2017 – 2019

Dhaka, Bangladesh

- The NSU ACM Student Chapter organizes various events, workshops, and competitions throughout the year, enabling students to enhance their technical skills, collaborate with peers, and engage with industry professionals. Through my involvement, I have gained valuable insights into emerging technologies, participated in hackathons, and developed leadership abilities by organizing and leading initiatives.

Education

BSC in Computer Science and Engineering, North South University

2017 – 2021

Dhaka, Bangladesh

- Specialized Trail – Artificial Intelligence
- CGPA 3.39 (Grading percentage- 89%)

Higher Secondary School Certificate (HSC), Rajshahi College

2013 – 2015

Rajshahi, Bangladesh

- Group – Science
- GPA – 5.00

Secondary School Certificate (SSC), Govt. Laboratory High School

2005 – 2012

Rajshahi, Bangladesh

- Group – Science
- GPA – 5.00

Skills

Programming Languages

Python, C, C++

Database Management

MySQL

Version Control

Git

Softwares and Tools

Visual Studio Code, Xampp, Pycharm, Jupyter Notebook, Atom, MS Office

Projects

AOAVER, Autonomous Obstacle Avoiding Exploring Robot (Python, ROS, ML)

Aug 2021 – Dec 2021

- "AOAVER" is a versatile exploration robot that avoids obstacles, explores inaccessible areas, and detects various barriers. Our objectives revolve around automaticity, obstacle avoidance, and area exploration.

DEX-BOT, Disaster Exploring Robot (Python, C++, Arduino)

Jun 2020 – Aug 2020

- Dex-Bot, or Disaster Exploring Robot, is an advanced robotic system designed to safely investigate disaster areas and collect crucial data. It navigates challenging terrains, ensuring the safety of human lives. Its primary purpose is to deliver essential information to human responders without jeopardizing their safety.

Assist disabled and old people using the hand gesture recognition, (Python, OpenCV)

Sep 2019 – Nov 2019

- Our project aimed to create an affordable and user-friendly system to assist the elderly and individuals with speech and hearing impairments. We developed a hand gesture recognition system to help those who cannot communicate verbally or physically. Our goal is to improve the accessibility and usability of these technologies in a competitive environment.

Publications

Understanding the Healthcare Sector in Bangladesh: Experience and Services during the COVID-19 Pandemic,

2022

The 6th Asian CHI Symposium (SEACHI 2022) [↗](#)

- During the COVID-19 pandemic, accessing basic healthcare became a persistent challenge for Bangladeshis. We conducted ongoing qualitative research to comprehensively understand the healthcare issues faced by individuals, particularly within the government hospital systems.

Alpha-N-V2: Shortest Path Finder Automated Delivery Robot with Obstacle Detection and Avoiding System,

2020

Vietnam Journal of Computer Science (Online ISSN: 2196-8888) [↗](#)

- An improved version of Alpha-N, a self-powered, wheel-driven Automated Delivery Robot (ADR), is presented in this study. Alpha-N-V2 can navigate autonomously by detecting and avoiding objects or obstacles.

Alpha-N: Shortest Path Finder Automated Delivery Robot with Obstacle Detection and Avoiding System,

2020

Vietnam Journal of Computer Science, Vol 7, No 4 (2020) [↗](#)

- Alpha N A self-powered, wheel-driven Automated Delivery Robot is presented in this paper. The ADR can navigate autonomously by detecting and avoiding objects or obstacles. It uses a vector map of the path and calculates the shortest route by the Grid Count Method of the Dijkstra Algorithm.