

Jahir Uddin

112, North Ibrahimpur, Kafrul, Dhaka

☎ +88 01926003436 | ✉ jahir.uddin@g.bracu.ac.bd | 🏠 <https://jukomol.github.io> | 💻 github.com/jukomol | 🔗 [linkedin.com/in/jukomol](https://www.linkedin.com/in/jukomol)

Major Achievement

Project Engineering Manager : Brac University's 2nd Nano Satellite Program, LaSSET

European Robotics League 2022: 4th position and Perseverance award

My Role: Project Engineering Manager, AI & Communication Lead

Media Coverage : The Business Standard, The Daily Star, NTV, Prothom Alo.

Education

BSc in Computer Science

Brac University

- Working as a Research Assistant
- **CGPA:** 3.21 out of 4.00 (121/124 credit)

May 2018 - Current
Dhaka, Bangladesh

Higher Secondary School Certificate

Adamjee Cantonment College

- **GPA:** 4.92 out of 5.00

May 2015 - May 2017
Dhaka, Bangladesh

Secondary School Certificate

Feni Government Pilot High School

- **GPA:** 5.00 out of 5.00

Jan 2010 - May 2015
Feni, Bangladesh

Work Experience

Research Assistant

Brac University

- Laboratory of Space System Engineering and Technology, LaSSET

Nov 2022 - Current
Dhaka, Bangladesh

Project Engineering Manager

BracU Dichari

- Developed an autonomous rescue rover and a drone employing cutting-edge technology while leading a team of forty people. For both the rover and the drone, we utilized SLAM and ROS.
- Developed Image Meta-Data manipulation system to construct 3D mesh.
- Employed Deep Learning based Mannequin detection with 95% accuracy. Moreover, developed a system for automated risk assessment.
- **Technical Skills:** AI, Python, Embedded C, ROS, Linux, Git, Wireless Communication, Circuit Development
- **Soft Skills:** Leadership, Teamwork, Time Management, Communication, Presentation skills.

Jan 2022 - September 2022
Dhaka, Bangladesh

Technical Team Lead

BracU Mongol Tori

- Developed world's one of the finest Mars Rover. Lead 30 members team to make an intelligent rover.
- Designed vision and GPS based autonomous navigation system.
- Developed everything from scratch. Including navigation system and graphical user interface.
- **Technical Skills:** AI, Python, Embedded C, OpenCV, Bash, Git.
- **Soft Skills:** Leadership, Time Management, Communication, Logical Thinking.

Dec 2020 - Dec 2021
Dhaka, Bangladesh

DevOps Intern

InsideMaps Inc.

- Worked on 3D visualization and mapping technology.

Sep 2021 - Dec 2021
Dhaka, Bangladesh

Skills

Programming

Python (Pandas, django, tkinter, PyTorch, NumPy, Scikit-learn. etc.), ROS (Gazebo, Rviz, RQT, TF, etc.), Docker, JAVA, C/C++, HTML/CSS, JavaScript, SQL, MongoDB, OracleDB

Miscellaneous

Linux, Shell (Bash/Zsh), \LaTeX (Overleaf), Tableau, MS office 365, Git, Heroku, Proteus

Soft Skills

Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Scholarship and Achievements

2022	4th & Perseverance Award , European Robotics League	Poland
2021	4th , KIBO Robot Programming Challenge	Bangladesh
2021	Global Finalist , Earth Observation Hackathon	USA
2021	9th , International Rover Design Challenge	India
2021	3rd , University Rover Challenge (URC)	USA
2017	Best Contributor Award , Neutrino ACC Science Club	Bangladesh
2016	National Champion , IBBL 2nd ACC National Science Carnival	Bangladesh
2015	Talentpool Scholarship , Secondary School Certificate Examination	Bangladesh
2013	Talentpool Scholarship , Junior School Certificate Examination	Bangladesh
2009	General-grade Scholarship , Primary School Certificate Examination	Bangladesh

Research Interests

Robotics	I love building intelligent machines. It excites me whenever I see a machine is making decisions itself. I have an interest in embodied AI in Robots.
3D SLAM	I have interests in autonomous navigation, self driving vehicle, simultaneous localization and mapping.
UAV	Autonomous Missions, Remote Sensing, 3D Mapping
Cube Satellite	Low power consumption and cutting edge AI on satellite

Languages

English	Professional proficiency
Bengali	Native proficiency

Publications

- Jahir Uddin, Muntasir Ahad, Abdulla Hil Kafi, Wireless Event Based Kill-switch for Safe & Autonomous UAV Operations, ICEIC 2023 (Accepted)

Volunteer and Social Works

Founder	July 2014 - Current
Ektu Anander Khoje	Feni, Bangladesh
<ul style="list-style-type: none">It is a foundation that gives underprivileged kids access to sports equipment and educational resources.Website	