

# Jahir Uddin

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## Summary

An Undergraduate student at the Brac University, passionate about working with robotics and drones. I am working more than 2 years with robotics, python, autonomous navigation, 3D SLAM, wireless communication, simulation, ROS etc. Some of my works can be found on GitHub.

## Education

### Brac University

BSc in Computer Science

Dhaka, Bangladesh

May 2018 - Current

- Working as a Research Assistant
- **Courses:** Artificial Intelligence, Neural Networks, Cloud Computing, Internet of Things, Robotics, Cryptographic Analysis

### Adamjee Cantonment College

Higher Secondary School Certificate

Dhaka, Bangladesh

May 2015 - May 2017

- Passed with 4.92

### Feni Government Pilot High School

Secondary School Certificate

Feni, Bangladesh

Jan 2010 - May 2015

- Passed with Distinction
- Honoured with Talent-Pool Scholarship

## Work Experience

### Brac University

Research Assistant

Dhaka, Bangladesh

Sep 2021 - Current

- Working with under supervision of Professor Dr. Md. Golam Rabiul Alam on Aquatic Wireless Communication in Under Water

### BracU Dichari

Project Engineering Manager

Dhaka, Bangladesh

Jan 2022 - September 2022

- Develop 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:** Python, Embedded C, ROS, NumPy, Matplotlib, Pandas, Scikit-learn, Ubuntu Linux, Linux tools, Apt, Scripting, Git.
- **Soft Skills:** Leadership, Teamwork, Time Management, Communication, Presentation skills.

### BracU Mongol Tori

Technical Team Lead

Dhaka, Bangladesh

Dec 2020 - Dec 2021

- 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:** Python, Embedded C, OpenCV, Bash, Git.
- **Soft Skills:** Leadership, Time Management, Communication, Logical Thinking.

### InsideMaps Inc.

DevOps Intern

Dhaka, Bangladesh

Sep 2021 - Dec 2021

- Worked on 3D visualization and mapping technology.

## Skills

### Programming

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

### Miscellaneous

Linux, Shell (Bash/Zsh),  $\text{\LaTeX}$ (Overleaf), Tableau, MS office 365, Git, Heroku

### Soft Skills

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

## Achievements

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2022	<b>4th</b> , European Robotics League	<i>Poland</i>
2021	<b>4th</b> , KIBO Robot Programming Challenge	<i>Bangladesh</i>
2021	<b>Global Finalist</b> , Earth Observation Hackathon	<i>USA</i>
2021	<b>3rd</b> , University Rover Challenge (URC)	<i>USA</i>
2017	<b>Best Contributor Award</b> , Neutrino ACC Science Club	<i>Bangladesh</i>
2016	<b>National Champion</b> , IBBL 2nd ACC National Science Carnival	<i>Bangladesh</i>

## Interests

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<b>Robotics</b>	I love building stuffs. Mostly, I love to make RC air-crafts.
<b>Linux</b>	Since 2017, I have been in love with Linux. I use Kubuntu for my everyday work.
<b>Technical Writing</b>	I write descriptive blogs about tech, some of them are on my GitHub
<b>Video Games</b>	I mostly play racing games on my PC.
<b>Swimming</b>	I started swimming when I was 9. Going through submerged things while holding my breath was the most exciting part.
<b>Music</b>	I enjoy almost all types of music may it be Bangla Classic, 90's Hindi, Urdu Gazal, Soft Melody, Soft Rock etc.

## Languages

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<b>English</b>	Professional proficiency
<b>Benglai</b>	Native proficiency
<b>Hindi</b>	Bilingual proficiency

**References available upon request.**