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
Dhaka, Bangladesh

BSc in Computer Science
May 2018 - Current

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

Adamjee Cantonment College
Dhaka, Bangladesh

Higher Secondary School Certificate
May 2015 - May 2017

- Passed with 4.92

Feni Government Pilot High School
Feni, Bangladesh

Secondary School Certificate
Jan 2010 - May 2015

- Passed with Distinction
- Honoured with Talent-Pool Scholarship

Work Experience

Brac University
Dhaka, Bangladesh

Research Assistant
Sep 2021 - Current

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

BracU Dichari
Dhaka, Bangladesh

Project Engineering Manager
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
Dhaka, Bangladesh

Technical Team Lead
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.
Dhaka, Bangladesh

DevOps Intern
Sep 2021 - Dec 2021

- Worked on 3D visualization and mapping technology.

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

Achievements

2022	**4th,** European Robotics League	*Poland*
2021	**4th,** KIBO Robot Programming Challenge	*Bangladesh*
2021	**Global Finalist,** Earth Observation Hackathon	*USA*
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*

Interests

Robotics   I love building stuffs. Mostly, I love to make RC air-crafts.

Linux   Since 2017, I have been in love with Linux. I use Kubuntu for my everyday work.

Technical Writing   I write descriptive blogs about tech, some of them are on my GitHub

Video Games   I mostly play racing games on my PC.

Swimming   I started swimming when I was 9. Going through submerged things while holding my breath was the most exciting part.

Music   I enjoy almost all types of music may it be Bangla Classic, 90's Hindi, Urdu Gazal, Soft Melody, Soft Rock etc.

Languages

English   Professional proficiency

Benglai   Native proficiency

Hindi   Bilingual proficiency

References available upon request.