TAKI Uddin

Flutter Developer
UI/UX Designer

Humble, honest & hard working

19/B, Tejgaon St. Road, Dhaka-1215
+880 17 49607 995
takiuddin93@gmail.com
github.com/takiuddin93
linkedin.com/in/takiuddin93
takiuddin.com

EXPERIENCE

VU Mobile — **Project Manager (Part-Time)**
November '21 – Present

Managing all the past VU Mobile applications, including UAT and A/B testing for marketability. Also working as a cross platform developer for upcoming VU Mobile projects.

Asiatic Marketing Communications Limited — **Web/Flutter Developer**
September '17 – November '21

UI/UX designer and Android developer. Since 2019, I've been managing Flutter-based cross-platform mobile app design, development, and support. I've worked on HR management and schedulers.

Axion – Engineering Solutions Limited — **Project Manager (Part-Time)**
September '19 – Present

Managing projects from start to finish, including A/B testing for marketability. Cost estimation, technology use, and quality control.

Grameenphone — **Intern**
May '17 – August '17

Skitto app quality assurance and testing. Creating test cases and replications. Sending app issues and bugs to developers via JIRA.

Team NSU Spark — **Software & Design**
March '16 – March '18

Team NSU Spark was made up of North South University students and recent graduates. We co-designed projects for national and international competitions.

IEEE NSU Student Branch (INSB) — **Instructor**
September '15

Workshop sessions on Arduino, basic Bluetooth controlled servos and line followers.

North South University Communications Club — **Founding Treasurer**
August '15 – August '15

Account for money spent on events organized by the club, both national and international level.

ACHIEVEMENTS

Wageningen University, Netherlands '17
1st Runners Up, Hackathon for Environmental Migrants

Champions Embedded Systems '17
Techkriti'17 IIT, Kanpur, India

1st Runners Up in TIC '17
Techkriti'17 IIT, Kanpur, India

Champions Techfest IoT '16
Bombay, India

Champions Techfest Wall Follower '15
Dhaka Bangladesh

EDUCATION

M.Sc, Data Science – United International University
'20 – Present

B.Sc, ETE – North South University
'12 – '18

A-Levels – Bangladesh International School – English Section - Riyadh, K.S.A
'10 – '11 (1A, 2B)

O-Levels – Bangladesh International School – English Section - Riyadh, K.S.A
'09 (3A*, 3A, 1C)

SKILLS (Self assessed, out of 5)

Flutter	3.5 ★	Android	3.0 ★
HTML5	3.5 ★	CSS3	3.0 ★
Nginx	2.5 ★	SQL	3.5 ★
Python	3.0 ★	Nodejs	3.0 ★
Team work	4.5 ★	Leadership	4.5 ★

PROJECTS

Throughout my university and career, I took on innumerous projects. Several were for research papers, a few were for competitions, and a few were simply executed as a DIY enthusiast.

Mars Exploration Rover (Phobos):

Modeled after Curiosity, the famous Mars rover, it was designed to navigate difficult terrain and be teleoperated. The rover had a 4-axis robotic arm that could do various tasks, plus an IP camera that streamed live video to the user.

Urban Search & Rescue Using Marsupial Robots:

In this demo, we designed a kangaroo mother and baby robots for urban search & rescue. Like a kangaroo's mother carries her young in a pouch, we designed larger multi-terrain mother robots and smaller flexible baby robots. The mother robot would transport the baby robots efficiently, and safely to a central rescue location. In collapsed/damaged structures, where humans or rescue dogs are risky, the baby robots can locate & help people. After delivering the baby robots, the mother robot becomes a ‘base station”. Afterwards, it must return the baby robots to safety.

Remote Monitoring of Sensor Data using RF Technology:

The readings from the sensors were sent to a receiving node connected to a microcontroller and an LCD display. The received data was then displayed. The data was sent and received using RF433 transceivers connected to the Arduino microcontroller.

Anti-Theft Alarm System for Small Office Spaces:

The project's main goal was to detect any unusual personnel entry. The device used ultrasonic and motion sensors to detect abnormal entry. There would be an alarm and people would be notified. The device was placed in a corner of the room because the motion sensor covers almost the entire room. Arduino microcontroller programed it.

An android & joystick controlled user-friendly wheelchair:

This paper introduces a smart wheelchair that is user-friendly. A smartphone android app controls the wheelchair. On demand, users can use a joystick. The wheelchair's performance is analyzed. Practical studies establish the system's efficiency. Finally, the smart wheelchair is practical, affordable, and reliable. This paper also opens up huge research opportunities for disabled people.

Gesture Controlled Cursor:

The mouse controller uses two green trackers worn on the user's fingers. The green is filtered using BGR values. Then morphological transformation removes noise. Finally, the mouse pointer is tracked and mapped using the pynput and tkinter libraries, as well as basic math. This also allows for mouse-like click and drag gestures. The project was created in Python using the opencv library.

Wall Following Robot using PID Controller:

The famous PID control algorithm was used to design a wall following robot. Ultrasonic sensors were used to detect walls and other obstacles. The track had obstacles and curves. Among the other robots in the competition, this one completed the track in the quickest time, 13 seconds. Later, it won the first prize in the robot race segment of TechFest Dhaka's competition.

Maze Solving Line Follower Robot:

The competition rules required a robot chassis with appropriate motors and sensors to solve a maze. An eight-array IR sensor detected the maze's lines. The left-hand rule was used to solve the maze.

REFERENCES

Md Tanzib Hossain
Senior Web Developer, Asiatic Marketing Communications Limited (AMCL)
+880 17 17883 717

Baized Shuvo
Founder, Robotech Shop
+880 17 37295 547