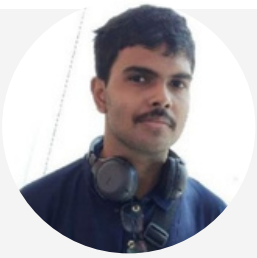

UTKAARSH SAHA

ROBOTICS & AUTOMATION UNDERGRAD STUDENT

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github.com/Kishou-Arima
Utkaarsh Saha

EDUCATION

B. Tech in Robotics & Automation Engineering 9.17 (Till 7th Sem)
Sister Nivedita University, Kolkata
2020-2024

AISSCE 86.8%
B.D.M International, Kolkata
2020

AISSE 90.2%
B.D.M International, Kolkata
2018

SKILLS

- Basic **C, C++** and **C#**
- Basics of **Control Systems Theory**
- Basic **MATLAB** & **Simulink**
- **Arduino** and **ESP 32 , ESP 8266**
- Basics of **Raspberry Pi**
- **CAD/CAM and Multibody Dynamics**
- Basic **Java** and **Python**
- Basic **.NET**
- **Unreal Engine 4.5+** and **Unity 3D**
- **PCB and Schematic Designing**
- **Embedded Systems (with 8051, 8085 and 8086)**
- **Assembly Language (8085, 8086x)**

EXPERIENCE

WINTER INTERN

RecurDyn VI [FunctionBay Inc]
Dec 2021-Feb 2022 (3 months)

- Interned Under Prof. SK Saha, IITD, Prof SV Shah, IITJ and Dr. P Nandihal, Sister Nivedita University, Kolkata
- Learned and Verified the Multibody Dynamics of Robotic systems via Simulation in MATLAB and using ReDySim.
- The Internship was held in teams, and was required to solve certain problems using the Software provided in a presentation format.

PROJECTS & ACTIVITIES

THE SNAKE 2 2019-2020

- A re-make of the famous Arcade Game "Snake", made for AISSCE Computer Science Project
- The game was made in Turbo C++, and includes VGA graphics initialization.

MINI-PROJECT : UNDERWATER ROBOT 2021-2022

- A Mini-project as part of the Curriculum for B.Tech.
- Designed a unique form-factor in CAD and researched possible uses.

3RRR PARALLEL ROBOT PRINTER/PLOTTER 2022-Present

- A Project as part of the Curriculum for B.Tech.
- Designed and Researched the Inverse Kinematics and Possible uses.
- Building the Hardware and Calculation of the Inverse Kinematics in MATLAB
- Current Progress: Typesetting the Motions to draw various alphabets of the Latin Script in a '14-segment Display' font style

ML STATEMENT & SENTIMENT CHECKER 2023

- A Windows Form Application that uses Machine Learning to analyze the sentiment of an entered statement.
- With a Model Accuracy of 81.9%.
- Developed using C#, and ML.NET

OBSTACLE DETECTING CAR (HOBBY PROJ) 2024

- Obstacle detection car "Oddie", made as a hobby project and displayed in an University Event.
- A Simple 4-wheel drive robot with UNO and L298N and equipped with Ultrasonic and IR sensors.