

SUHITA SINGH

suhitasingh104@gmail.com | (+91) 6386419144

EDUCATION

Electronics engineering | Kamla Nehru Institute of Technology, Sultanpur

CGPA: 9.26(2nd yr.) | 2020-present

XII (CBSE) | Shree Maha Prabhu Public School, Prayagraj

92.8% | 2019

X (CBSE) | Shree Maha Prabhu Public School, Prayagraj

10 CGPA | 2017

PROJECTS

❖ Quadcopter using CC3D flight controller

A Quadcopter (drone) built using CC3D flight controller and fly-sky transmitter and receiver.

❖ Determination of position of end effector for a 3R manipulator using ROBO Analyzer.

A project to determine the position of end effector using ROBO Analyzer software by changing various values and plotting a graph for it. Also, observing the 3D model view of a 3R manipulator and doing forward and inverse kinematics for it.

❖ Determination of position of End effector for a PUMA robot

A project to determine the position of end effector for a PUMA robot using ROBO Analyzer and CPROG software and perform forward and inverse kinematics on it.

❖ Kinematic and structural analysis of SCARA Robot.

A project to perform forward and inverse kinematics on SCARA robot using CPROG software and perform structural analysis by changing various co-ordinate values.

❖ Human following robot

A robot mainly built using ultrasonic sensor, infrared sensor, ARDUINO, and servo motor etc. and programmed using ARDUINO IDE which only follows a human being and stops as soon as it gets in the contact of any other object.

TECHNICAL SKILLS

- ❖ Robotics
- ❖ Drones
- ❖ C++
- ❖ HTML
- ❖ CSS
- ❖ JavaScript
- ❖ Graphic designing
- ❖ MATLAB

EXPERIENCE

❖ Robotics Intern | IStop

(Sep 5th,2021-Nov 5th,2021)

Completed 3 Industrial projects on 3R manipulator, PUMA robot and SCARA robot.

❖ Internship in propulsion lab at IIT- Kanpur under Prof. Ajay Vikram Singh

(Jun 13th,2023-present)

Working on image processing for the frames of recorded videos of the experiment based on "A fundamental study of boundary layer diffusion flames".

POSITION OF RESPONSIBILITY

❖ Secretary | Institution of Engineers India (Students chapter)

(2022-present)

Organized technical events related to problem solving and building projects on Electrical vehicles, bridge designing etc.

❖ Secretary | HOBBY CLUB, KNIT Sultanpur

(2022-present)

Organized workshops on drones, 3D printing and sensors.

❖ Designing Executive | PFAC, KNIT Sultanpur

(2022-present)

Organized events related to photography, designing etc.