Shruti Sinha

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EDUCATION

NIT PATNA
B.Tech in Electronics and communication Engineering
Expected 2022 | Patna,India
GPA 8.2/10 (upto 5th sem)

SRI SHANKAR COLLEGE,SASARAM, (ROHTAS)
Class 12 | BSEB
2017 | Bihar
Percentage: 72.2%

P.N.PUBLIC SCHOOL,KHANIPUR,SASARAM
Class 10 | CBSE
2015 | Bihar
CGPA : 9.8

LINKS

Github:// **shrutisinha22**
LinkedIn:// **shruti-sinha-97b564199**
Hackerrank:// **shruti2204sinha**

COURSEWORK

UNDERGRADUATE
Computer Programming
Computer vision and its applications
Data Structures and Algorithms
Object Oriented Programming
Artificial Intelligence
VLSI Design
Information Theory and coding
Signal Systems
Communication Engineering
Linear Integrated circuits

SKILLS

PROGRAMMING
Proficient
• C++
Familiar
• C •java • Arduino• Verilog
• MATLAB

TECHNOLOGIES
• HTML/CSS • Xilinx vivado

OTHERS
•Poem Writing

EXPERIENCE

PROJECT INTERN AT MAVEN SILICON | February-March 2021
Certificate

- **AHB2APB Bridge** RTL design using **Verilog HDL**
- Performed different types of data and address transfer operations Like , burst ,increment in read mode and write mode
- Worked well independently and on team to solve problems

PROJECTS

NUMBER-PLATE DETECTION | Self Project
Open Sourced : Github

- lets you Save images of car License plate from video feed and from image feed.
- Used Python libraries like **Numpy, OpenCV** and other image processing techniques.
- Returns the image of the license plate of the car.

LANE-DETECTION IN THE ROAD | Self Project
Open Sourced : Github

- To find and highlight driving lanes on highway.
- Used Python libraries like **Numpy, OpenCV** to extract the lane.
- Also return the visibility of the lane of the road.

A SIMPLE VOTING MACHINE | Self Project
Open Sourced : Github

- Designed a Simple Voting Machine using FPGAs with Verilog HDL and Vivado
- Uses **Zedboard, Xilinx vivado and verilog** language
- work in two mode (i) voting mode and (ii) Result mode

SMART STREET LIGHT MANAGEMENT | SIH Internal Hardware Hackathon
NIT Patna | 2020

- Automatic Road Light Controller
- Designed using **Microcontroller,Sensors,Logic Gates**
- Automatic switch ON and OFF roadside lights depending on movement of vehicles

ACHIEVEMENTS

•**2020 |** Selected in **Top 5 Teams** in Maze solver(A Robotic event) among 20 teams ,organised by Robotics club, NIT Patna

•**2019 |** Semi-finalist (Team Name-Technobots ,Role-Team Leader) of Robowar competition ,tech fest'19 at NIT Patna among 10 teams.

EXTRA-CURRICULAR

- Senior Member at Dance club, NIT Patna.
- Volunteered at SANKALP (A unit of NSS)