# HARSHIT BORANA

## MY CONTACT

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## SKILLS

**~ Core :-**
- Gaining Knowledge in C, C++ and Python
- Arduino
- ESP controllers
- Raspberry Pi

**~ Technologies & cloud :-**
- Internet Of Things
- Thing Speak
- Firebase

## SOFT SKILLS

- Observation
- Leadership
- Decision making
- Communication
- Multi-tasking

## EDUCATION

- **Geetanjali Institute OF Technical Studies**
  *Computer Science & Engineering*
  Pursing CSE'26 Batch

- **Kendriya Vidyalaya No.1**
  *12th Class With PCM Stream*
  Completed in 2022

- **Spring Wood School**
  *10th Class*
  Completed in 2020

## ABOUT ME

I am a dynamic professional with a passion for innovation and creativity. With a track record of leading teams and projects to success, I thrive in environments that demand out-of-the-box thinking. My ability to blend strategic vision with hands-on problem-solving has resulted in groundbreaking solutions that drive growth and transformation. As a creative leader, I empower teams to reach their full potential, fostering a collaborative and forward-thinking atmosphere.

## PATENT

"Smart Goggles With An Alert Stick"
20/01/2023                    202311002687 A

Key Points :
- Provides Object Detection & voice output
- Provides live location of the Blind
- Alert stick help in Way point navigation to guide the blind person
- Easy to carry, use and maintain
- Long battery life and an clear vision for Blind person

"Smart Garbage Collector Boat"

11/08/2023                    202311048803 A

Key Points :
- Machine learning based solar Boat
- Identifies water hyacinth through image detection
- Cuts the water hyacinth
- Collects the removed water hyacinth and collects other wastes too

## ACHIVEMENTS

- Shankara Globol Hackathon 2023
  Winner 2nd Prize

- Istart Ideathon Udaipur 2023
  Winner 1st prize

- MNIT Hackathon 2023
  Winner 2nd Prize

- Smart India Internal Hackathon 2023
  Winner 1st prize (Hardware Edition)
- Best Innovation & design Award 1st year
- Participated in Buzz on Earth 2.O (IIT Kanpur)
- Participated in Poornima Hackathon 2023

# PROJECTS

## "Smart Goggles With An Alert Stick"

**Tech Stacks : IOT | Arduino | Hardware Components | Sensors**
- Provides Object Detection & voice output to Blind Person
- Provides live location of the Blind
- Alert stick help in Way point navigation to guide the blind person
- Easy to carry, use and maintain
- Long battery life and an clear vision for Blind person

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## "Smart Garbage Collecting Boat"

**Tech Stacks : IOT | Raspberry Pi 4 | AI/ML | Flutter | Hardware**
- Machine learning based solar Boat
- Identifies water hyacinth through image detection
- Cuts the water hyacinth
- Collects the removed water hyacinth and collects other wastes too

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## "Tree Cutting Alerting System"

**Tech Stacks : IOT | ESP 8266 | ESP 32 CAM | Thing speak | Hardware**
- Identify tree cutting and alert the user
- Identifies theft through image detection and Gyroscope
- Provides Live location
- Dedicated mobile Application
- Dedicated website for Live feed

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## "Smart Shovel Vision System "
**Tech Stacks : IOT | ESP 32 | ESP 32 Cam | Firebase | Hardware**
- Real time monitoring of load status in mining area
- Accurate high frequency camera vision to shovel operator
- Provides live location to shovel operator
- Helps in avoid obstacles by using LIDAR

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## "Smart 360 Rotating Solar Panel"

**Tech Stacks : IOT | Arduino | Sensors | Firebase | Hardware**
- Sun tracking using sensor
- Rotations according to sun direction
- Live Updates through message
- Improve Solar effciency

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## "Farm Health Monitoring Device"

**Tech Stacks : IOT | ESP 8266 | Firebase | Figma | Hardware**
- Animal detection using Camera
- Real time update of soil Moisture
- Live camera feed
- Real time monitoring of Temperature and humidity
- Live Location

# CERTIFICATIONS

"Python Training  Course"

"Robotics Training  Course"

"Image processing And machine learning using MATLAB"

# POSITION OF RESPOSIBILITY

Coordinator GITS IDEATHON 2023

Coordinator GITS First Year Orientation

# INTERESTS

- Cycling
- Running Marathons
- Travelling
- Creating Best out of waste
- Football