

Shiven Gupta

Autonomous Systems Developer,
Publicity & Communications Specialist

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EDUCATION

Degree/Grade	Institution	Score
Btech in Maths and Computer Science	Manipal Institute of Technology	Expected 2027
12th	The Heritage School	93.5
10th	The Heritage School	95.2

EXPERIENCE

Blank 101 — Head of Publicity

SEPTEMBER 2024 - PRESENT

As Head of Publicity, I boost engagement for Blank 101 by promoting events through classroom announcements, social media, and official channels. This role sharpens my skills in marketing and communication while fostering a vibrant community around public speaking at our college.

Formula Manipal, —Member

April 2024 - PRESENT

As a member of the Formula Manipal Driverless team, I work on autonomous navigation by integrating ROS and Gazebo simulations. Using camera data, we detect cones, create waypoints, and calculate steering and thrust values through model predictive control. Currently, I am focused on developing hardware systems, specifically brake-by-wire and steer-by-wire, to bring this setup from simulation to the actual car. This role deepens my expertise in autonomous systems, simulation tools, and vehicle dynamics.

•Completed a specialization on Digital Marketing and E-commerce
<https://coursera.org/share/acb34aff73606e28aed92f0f353c67c2>

•Neural Networks and deep learning course
<https://coursera.org/share/6a3547d8c41aff578a7afe1f0c453181>

•Accounting Fundamentals by CFI

•Varsity Certified by Zerodha

SKILLS

- Autonomous Systems
- ROS (Robot Operating System)
- Machine Learning for Object Detection
- Computer Vision
- Python Programming
- Embedded Systems
- Project Management
- Public Speaking & Communication
- Social Media Marketing

AWARDS

Second Place (National) & First Place (Regional) – NXP AIM 2024

Developed an autonomous line-following car equipped with object detection and traffic sign recognition using camera and LiDAR inputs. Competed in a two-tiered competition, placing first in the regional round and second nationally in the grand finale.

LANGUAGES

English,Hindi