

# Himanshi Gupta

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## Particulars :

2nd floor, Rungta Apartment  
Girls School Road, Jugsalai  
Jamshedpur  
Jharkhand - 831006

## Contact Details :

Phone : 9572015411  
Email : himanshigupta.nitt@gmail.com

## Career Objective :

A diligent and determined person, who is curious to learn about the ever developing technologies. I aim to learn daily, from the smallest of things. My vision is to apply my engineering skills in space technology related applications in future.

## Education :

Degree	College/ School	Passing Year	Percentage
B-Tech	NIT Trichy	2021	9.74
CBSE	DAV Bistupur	2017	95.2
ICSE	Carmel Junior College	2015	97.4

## Technical Skills :

- Languages :
  1. C
  2. C++
  3. Embedded C
  4. Python
- Development Boards:
  1. Arduino
  2. Raspberry Pi

## Soft Skills :

1. Communication
2. Teamwork
3. Responsibility
4. Problem Solving

## Training and Internship :

- Attended a week long internship camp organised by the Department of Science and Technology, India which was hosted by ISM Dhanbad in 2015. The internship camp included guest lectures by esteemed professors across the country.

## Research Publication

None

## Extra Curricular Activities :

- Member at Spider(Tronix), the Research and Development Club of NIT Trichy
- Member at Nakshatra, the Astronomy Club of NIT Trichy
- Executive Committee member at National Service Scheme(NSS)
- Member of the Media Relations Team of Festember, the annual inter-college cultural fest
- Public Relations Coordinator at NITTFEST, the annual inter-departmental cultural fest
- Deputy Head Girl at DAV Bistupur (2016-17)

## Co-Curricular Activities :

1. S J Chainalu Medal of Excellence for being the department topper in first year
2. Certificate of Merit for being the batch topper in first year
3. Secured fourth position at E-Yantra - A National level Robotics and Embedded Systems Competition
4. Secured second place in Sangam - an inter college hardware hackathon held at NIT Trichy
5. Finalist at Jiteshraj Scholarship for Promising Freshmen
6. Secured second position in Following'18, a line follower bot challenge organised by the Robotics and Machine Intelligence Club of NIT Trichy

## Projects

JAN-FEB 2018	<i>Autonomous Line Following Bot</i> The bot was devised to traverse the arena along the lines of black coloured grid and reach the destination in the minimum possible time. A line following bot which mainly incorporated the use of Arduino Uno, IR Sensor array, L293D motor driver.
SEP-NOV 2018	<i>Wireless Game Controller using Infrared Data Transmission</i> A wireless gesture recognition setup which is used in place of keyboard to play various games like Asphalt, Star Defender. These are played using hand gestures, transmitted to the system as virtual keyboard press using a python interface. The gesture recognition is done by an IR Transmitter and Receiver system. The hardware setup involved the usage of Arduino Uno, Nano, accelerometer ADXL335, TSOP 1738.
ONGOING	<i>Ant Bot</i> Inspired from the real life working of ants, this project delves into colour image processing, path planning algorithms, pick and place mechanisms and line following using phototransistor sensor. The tasks done by the bot include collecting, supplying and removing inventories on the arena in the minimum possible time.
ONGOING	<i>Y Charger</i> A research project based to implement a wireless charging system using magnetic coupled resonant circuits
ONGOING	<i>Smart Adaptive Traffic Control System</i> A real life based Traffic System Model which incorporates the usage of Smart Switching algorithms and wireless V2I communication using Radio Frequency Identification (RFID) tags and detectors. More than a tangible project, this project is an idea, which in real time would reduce the fuel wastage due to idling of vehicles at the traffic light junctions and give prioritized authorization to Emergency Service Vehicles.

## Personal Information

1. Father's Name : Sanjay Kumar Gupta
2. Mother's Name : Megha Gupta
3. Sex : Female
4. Date of Birth : 02/06/1999
5. Nationality : Indian
6. Marital Satus : Unmarried

## Reference :

Dr Menka  
Professor, Department of Electronics and Communication Engineering  
NIT Trichy

## Declaration :

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief and I undertake to inform you of any changes therein, immediately. In case any of the above information is found to be false or untrue or misleading or misrepresenting, I am aware that I may be held liable for it.

## Date :

April 17, 2019.

