

# Avinash Kumar Gupta

A highly motivated and detail-oriented science post-graduate with over 5 years of experience in circuit design, firmware development, and embedded systems. Also worked on MERN stack Web development with frontend, backend and database. Have strong passion for solving problems with coding. I believe myself to be creative, and be able to crack any problem with my scientific and engineering skills.

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## Education

### Matriculation (CBSE Board)

2006 (score: 85.8%)

Holy mission Senior Sec. School

### Intermediate (CBSE Board)

2008 (score: 85.2%)

Kendriya Vidyalaya, Danapur

### Graduation & Post-Graduation

#### Integrated BS-MS in Physics

2014 (CGPA: 7.40)

from

Indian Institute of Science  
Education & Research, Kolkata

## Skills

### Programming Skills

C, C++, Java, Javascript, HTML,  
CSS, assembly language

### Other Libraries & frameworks

React-JS, Node-JS, Express,  
Bootstrap, MongoDB, MERN stack

### Skills in embedded system

- Register level programming for ATMELE AVR, STM and PIC MCUs.
- UART/SPI/I2C protocols with MCUs.
- ESP8266, ESP32, Arduino, STM MCU.

## Achievements

### Secured FIRST position in

- Autonomous robotics competitions 'STEP-UP' and 'ESCALADE' at IIT-KGP & IIT-Guwahati respectively
- 'ROBO-ZEST' (autonomous robotics event) by Roboshop
- At 12 others Autonomous robotics events.

### Secured SECOND position in

- 'iARC' (International Autonomous robotics championship) at IIT-K
- At 10 others Autonomous robotic events.

## Professional Experience

Sep, 2014 - Feb, 2017

Worked as project manager at DEE Electronics in Hoogly, West Bengal. Worked on circuit designing, writing firmware and manufacture of commercial electronics devices.

Jan, 2017 - Dec, 2017

Worked as freelancer for Femurs Space Pvt. Ltd. in algorithm designing, and ML techniques.

Dec, 2017 - Jul, 2024

worked as Deputy Manager at State Bank of India. Worked as relationship manager, Credit Officer, Service Manager, and Branch Manager. Worked in wide range of portfolios from digital banking to general banking. Also worked for 'Life and Limb pvt. Ltd.' as consultant in writing firmwares for prosthetic hands.

Aug, 2024- Present

Worked as freelancer for Germlife Laboratory Pvt. Ltd. in designing algorithms and firmwares. Worked on temperature monitoring system.

### OTHER PROJECTS WORKED ON

Voting web-app, social web-app, and e-commerce web-app with MERN Stack. Autonomous Line following Robots and self balancing robots using PID algorithms. Shortest path finder and maze solving robots using Dijkstra algorithm.

## Other Workshops/ courses completed

- 12 months certification programme for Java and full stack Web development by 'Coding Ninjas'.
- Aero-modeling workshop organized at IIST, and Autonomous Robotics workshop by RoboShop at Bhubaneswar.
- Professional course on computer hardware/software and Networking by AK Info, Patna.

## Other interests and Hobbies

Drawing / Playing Badminton, Table Tennis / Photo & Video editing/ Swimming / Playing Guitar / 3D Printing Objects