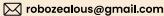
# Avinash Kumar Gupta

A highly motivated and detail-oriented science postgraduate 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**)

Education & Research, Kolkata

from Indian Institute of Science

## Skills

# **Programming Skills**

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

#### Other Libraries & frameworks

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

#### Skills in embedded system

- > Register level programming for ATMEL 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 <b>DEE Electrics</b> in Hoogly, West Bengal. Worked on <b>circuit</b> 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 <b>Deputy Manager</b> at <b>State Bank of India</b> . 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 <b>'Life and Limb pvt. Itd.'</b> as consultant in <b>writing firmwares for prosthetic hands</b> .
Aug, 2024- Present	Worked as freelancer for <b>GermiLife Laboratory Pvt. Ltd.</b> in designing algorithms and firmwares. Worked on temperature monitoring system.
OTHER PROJECTS WORKED ON	Voting web-app, social web-app, and <b>e-commerce web-app with MERN Stack</b> . Autonomous <b>Line following</b> Robots and <b>self balancing robots</b> using <b>PID algorithms</b> . Shortest path finder and maze solving robots usingh <b>Dijkstra algorithm</b> .

# 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