Shivang Hashia

Robotics Instructor

Profile

Dynamic Robotics Instructor with a proven track record of fostering an innovative and hands-on learning environment. Skilled in guiding students of all ages through the fundamentals of robotics, programming, and engineering principles.

Contact

- +917827191232
- shivanghashia5@gmail.com
- Dwarka, Delhi, India

Skills

- Comprehensive understanding of robotics concepts, including mechanical design, electronics, sensors, actuators, and various types of robots.
- Proficiency in programming languages commonly used in robotics, such as Arduino Programming Language,C,C++
- Ability to effectively communicate complex technical concepts to students of various age groups and educational backgrounds. Skilled in developing and delivering curriculum content, lesson plans, and workshops.
- Proficient in leading practical sessions and guiding students through building, programming, and troubleshooting robots.
- Strong problem-solving skills to address technical issues, debug robotics projects, and guide students in overcoming challenges.
- Ability to oversee robotics projects, including planning, execution, and ensuring completion within set timelines.
- Encouraging and fostering creativity in students, promoting innovative thinking and encouraging the development of new ideas in robotics.

Education

(2013–2017)

PUNE UNIVERSITY

Bachelor's of Electrical Engineering

6.5 CGPA

Experience

CRPF PUBLIC SCHOOL, DWARKA

(Dec 2023 - Present)

Atal Tinkering Lab Engineer

- Facilitate an environment of inquiry and active learning among students through effective teaching methods.
- Arrange regular ATL sessions for middle school students and specialized activity sessions for senior students.
- Manage and document all relevant Tinkering events, including submissions and follow-up procedures.
- Maintain up-to-date documentation of ATL inventory for internal inventory management.
- Effectively manage classes and projects, including follow-ups and preparations.
- Supervise and guide students in undertaking ATL projects encompassing various modules such as Artificial Intelligence, Dremel Design, Woodwork Design, 3D Design, Laser Design, Design Thinking, IoT Projects, Technology Know-how, Core and Lego Robotics, Automobile, Water Tech, and Digital Education.
- Organize frequent sessions on diverse 21st-century skills to encourage student participation in ATL activities and challenges.
- Conduct regular meetings with the school management to discuss challenges, share insights, and collaboratively find solutions.

AGASTYA INTERNATIONAL FOUNDATION

(2019–2023)

STEMLab Instructor

- Planning daily lessons.
- Instruct students on fundamental robotics principles, including mechanical design, electronics, sensors, actuators, programming, and engineering.
- Lead practical sessions where students build, program, and troubleshoot robots, providing guidance and supervision throughout the process.
- Assist students in problem-solving, troubleshooting technical issues, and debugging robots, fostering critical thinking and innovative solutions.
- Offer mentorship and support to students, encouraging creativity, curiosity, and an interest in STEM (Science, Technology, Engineering, Mathematics) fields.
- Monitoring student growth to identify strengths and areas for improvement.

Projects

Smart Dustbin
- Create a smart dustbin that can automatically open when someone approaches and has sensors to detect the type of waste.

Wifi- Car
- Create a smart dustbin that can automatically open when someone approaches and has sensors to detect the type of waste.

Mini Computer
- Created Mini Computer using Rasberry-Pi