

YOGENDRA SINGH

Experienced Professional (10+ Years)

An Innovator, thinker, and opportunist having keen interest in developing & executing new ideas and a strong technical background in the field of Automation & Robotics, Design, STEAM Concept based Learning. I always look for work & people where I can grow my learning & use my skills to enhance the quality education.

PROFESSIONAL EXPERIENCE

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|------------------------------|--|
| Oct 016 to 20/6/2022 | Pathways International school, Gurgaon India -Tinkering Engineer (Tinkering & Design Studio) |
| 20/6/022 to Present | - Robotics Teacher (Tinkering & Design Studio) - Robotics and design related activities for students, based ongoing unit of Inquiry, always support and inspire School staff to integrate technology into their lessons. -Tech Awareness Program & Support to teachers/Tech-Coaches/ICT teachers and Students for hands on learning. - After School Robotics Design Program- To Prepare students for various National/International Robotic-STEAM Championships. -Coordinate with Principal and HOD- Digital Learning- to refine and implement the Design Technology strategic planning for effectiveness of teaching/learning and how to improve it. - Ensure the safe use of Tinkering and Design Studio Including 33+ lessons with project base learning in a week to keep up to date with the latest Technology developments for the use in teaching and learning. |
| JAN-016 to Oct 016 | Ducat G. Noida-Embedded Head - Trained 2000+ Students (working on Various R&D Projects with Industry and Students from different discipline of engineering. |
| May 2014 to JAN- 2016 | RoboIndia Technologies Pvt. Ltd. G. Noida Scientific Officer -Development of Robotics/Embedded Projects and them completion within timeframe using STEM. -Delivered more than 100+ workshops & Trainings at IITs, NITs & various other Institutes on Industrial Automation & Robotics, Arduino, Embedded System, PLC, Internet of Things etc. |



PERSONAL DETAILS

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N- Indian

Language- English, Hindi,

AREA OF INTEREST

- * Robotics and Design Thinking.
- * Design & Technology
- * STEAM Education
- * Embedded Systems
- * Artificial Intelligence.

TECHNICAL SKILLS

Efficiency on Hardware:

Microcontrollers, PCB & Breadboard Designing, RF Modules, 3D Printing, Laser Cutting technology, S4A, Raspberry pi, Lego building and interfacing with ev3, NXT, we do 2.0, Makey - makey, mechanical- power tools, mechatronics skills etc.

Programming Languages:

Embedded C, Lego Mindstorms, Arduino programming, Scratch block coding, App based GUI Programming, Python.

Designing software skills:

Tinker CAD, 3D code-block, 3D Builder, 123D Design, 2D-Design, Sketchup, 3D-Sense, 5D-Planner, AutoCAD,3D fusion 360.

April 2012 to May 2014 | **TIFAC- CORE, AKGEC- Ghaziabad**
Project In-charge

-Worked at Center of Relevance & Excellence in Industrial Automation and Robotics in KUKA Industrial Robotics Center, designed various projects on KUKA KR16, KUKA AGILUS, controlled using Arduino-Uno etc.

EDUCATION

M.TECH (AUTOMATION & ROBOTICS)

B. Tech in ECE (ELECTRONICS & COMMUNICATION ENG.)

MOTIVATIONAL-AWARDS/CERTIFICATES

- Judge **Regional & National** level **Indian Robot Olympiad**.
- Judge at **National** level **FLL-First LEGO League-2019-2020**.
- Got the certification of **IB Certified teacher for international schools** organized by IB Global Centre, Singapore.
- Appreciations award for technology Exhibition at pathways- 2017-18, 2018-19 ,2019-20,2021,2022.
- Got the opportunity to visit **ASIA'S LARGEST EDUCATION CONFERENCE AND EXHIBITION**, Edu Tech Asia 2019 at Suntec convention Centre Singapore, sponsored by Pathways international School Gurgaon.
- Completed IB-Workshop **-ATL-** (Approaches to learning), Category-3-organized by IB Research Department.
- **Best Design Award**, Water Rocket Design at **IGNUS, IIT Raj**.
- Honored as the **Best work for Students** for **IGNUS, IIT Raj**.
- **Innovation and change Award** at Pathways School, Gurgaon 2018-2019,2021-22.
- **Technology Collaboration Award** at Pathways School, Gurgaon for 2018-19, 2019-20.2021-22.
- Best Coach certification from **India stem foundation for the FLL (First Lego League 2016)**.
- **A Combat Robot-COGNIZANCE, IIT ROORKEE** Achieved **10th position** in **PAN India (Asia's second largest Science & Tech Fest)**.
- **1stposition** Events-Robotic Branding comp, Image Processing, Cyber quiz, at **university level**.

For More detail -kindly visit the below link.

<https://www.yogendrasingh.net>

LinkedIn profile-

<https://www.linkedin.com/feed/>

DECLARATION

I am confident of my ability to work in a team and assure to give my best.