

BADRI VISHAL PANDEY

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Summary

Mechatronics professional with a Master's degree and experience in robotics, AI/ML, embedded systems, and STEM education. Skilled in curriculum development, content creation, lab management, and training diverse student groups. Proven ability in resource planning and effective communication, eager to contribute to innovative projects and educational initiatives.

Experience

STEM Educator

Mar 2025 - Present

DR. SPRGIC, Lucknow (Full-time)

- Conduct AI and Robotics training for Grade 5-10 students.
- Develop engaging curriculum, manage lab equipment, and organize STEM workshops and competitions.

Marketing Team Member

Dec 2024 - Feb 2025 (3 months)

Saroj Educational Group, Lucknow (Full-time)

- Generated new student admissions through targeted outreach programs and promotional events.
- Announced new openings and program offerings to potential students and coordinated with academic departments.

Robotics Instructor

Aug 2023 - May 2024 (9 months)

Playto Labs

- Taught Arduino, Programming, IoT, 3D Printing, Sensors, and Python to students from Grade 9 to 12.
- Designed and executed robotics learning modules, including hands-on activities and DIY kits; developed tailored educational materials.

Specialized Resource Person

Aug 2023 - May 2024 (9 months)

IHFC (TIH of IIT Delhi)

- Provided specialized training and guidance on electronics and robotics projects.
- Collaborated with research teams to develop innovative automation solutions and assisted in technical curriculum development.

Electronics Engineer

Sep 2022 - May 2023 (9 months)

TechnoS Instruments

- Taught students drone technology and its applications, managed lab resources, and developed educational content for drone courses.

PG Scholar & TA

Oct 2020 - Sep 2022 (2 years)

CAS, Lucknow

- Assisted professors in mechatronics and robotics research and experiments.

- Conducted research in robotics and automation, contributing to academic publications and guiding student projects.

Education

Master of Technology (M.Tech), Mechatronics

2020 - 2022

Dr. APJ AKTU, Lucknow, Uttar Pradesh

First Division

Bachelor of Technology (B.Tech), Electronics and Communication

2013 - 2017

Dr. APJ AKTU, Lucknow, Uttar Pradesh

First Division

Skills

Robotics
AI/ML
Embedded Systems
Arduino
Python
C/C++
IoT
3D Printing
MATLAB
Sensors
PCB Design (EAGLE)
CAD (SOLIDWORKS)
Curriculum Development
Content Creation
Training & Mentoring
Lab Management
Technical Writing
Communication (Verbal & Written)
Project Coordination
Resource Planning

Licenses & Certifications

- MATLAB and Simulink, Machine Learning On-ramp - MathWorks
- Automation and Robotics Training - Festo India
- Embedded Systems - National Skill Development Corporation
- Cisco Networking Essential and IOT Course - Cisco

Publications

Pandey, B.V., Kumar, J. (2024). "Learning the inverse kinematics of a 6-DOF manipulator using a feedforward neural network". *AIP Conf. Proc.* 3000, 020005.