HEMANTH KUMAR KHATRI

ROBOITCS ENGINEER

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B.Tech Computer Science graduate and aspiring Robotics Engineer with hands-on experience in building Arduino and IoT-based robotics projects. Currently working as a Robotics Trainer at Aaklan IT Solution, mentoring students on embedded systems, sensors, and robotics fundamentals. Experienced in Arduino, NodeMCU, ultrasonic/IR sensors, motor drivers, and real-time control. Passionate about developing innovative robotics and IoT solutions for real-world applications.

TECHNICAL SKILLS

- **Robotics & Automation:** Obstacle Avoidance, Human-Following Robots, IoT Projects and Automation Projects
- **Hardware & Electronics:** Arduino, NodeMCU, Sensors & Actuators, Motor Drivers, Circuit Design
- **Programming:** C/C++, Python, Arduino Programming
- **Platforms & Tools:** Raspberry Pi, Arduino IDE, MIT App Inventor
- **Other:** Project Mentoring, Lab Management, Innovation & Problem Solving

EDUCATION

B.Tech – Computer Science & Engineering (Cybersecurity) **Aug 2021 - April 2025**
Parul University

Senior Secondary (Class 12) **April 2020 - March 2021**
Holy Child Public School

Senior Secondary (Class 10) **April 2018 - March 2019**
Holy Child Public School

PROFESSIONAL EXPERIENCE

Robotics Trainer – Aaklan IT Solution **June 2025 – Presentt**

- Conduct hands-on robotics workshops for school students, teaching Arduino, sensors, and basic robotics concepts.
- Mentor students through projects like Obstacle-Avoiding and Human-Following Robots, guiding them from design to testing.
- Teach fundamentals of electronics, IoT, and embedded programming in a way accessible to young learners.
- Encourage creativity, teamwork, and problem-solving skills while maintaining a safe and engaging lab environment.
- Plan and manage multiple student projects, helping students build confidence in designing and implementing robotics solutions.

PROJECTS

Obstacle-Avoiding Robot **August 2025 – August 2025**

- Designed and built an autonomous robot using Arduino and ultrasonic sensors.
- Implemented motor control and obstacle detection algorithms for smooth navigation.
- Learned embedded programming, electronics troubleshooting, and debugging techniques.
- Improved understanding of sensor integration and robotics control logic.

Human-Following Robot **September 2025 – September2025**

- Designed and built an autonomous robot using Arduino and ultrasonic sensors.
- Implemented motor control and obstacle detection algorithms for smooth navigation.
- Learned embedded programming, electronics troubleshooting, and debugging techniques.
- Improved understanding of sensor integration and robotics control logic.

CERTIFICATIONS

- Introduction to Robotics – **NPTEL (Ongoing)**
- **Quick Heal Academy** – Cybersecurity & Robotics Workshops

CORE STRENGTHS

- Strong problem-solving and analytical thinking
- Excellent communication and teamwork
- Quick adaptability to tools and technologies
- Passion for robotics hardware and automation

LANGUAGES

- English
- Hindi

INTERESTS

Robotics, IoT, Embedded Systems, AI for Robotics, Automation