

Aditya Shankar Wadhwa

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EDUCATION

Manipal Institute of Technology [MIT] Bachelor of Technology - Mechatronics; CGPA: 7.18 Courses: Digital Design, Mechanics of Robotics Systems, Sensors and Transducers, Design of Machine Elements, Digital Signal Processing, Linear Control Theory, Industrial Automation, Electric Drives, Hydraulic and Pneumatic Systems, Manufacturing Technology, Engineering Economics and Financial Management, Database Systems, Cybersecurity for Automation	Udupi, India 2023 – 2027 (Expected)
Gyan Bharati School Class XII, 85% 2022–2023 Class X, 90% 2020–2021	New Delhi, India

SKILLS SUMMARY

- **Languages:** C, Python
- **Tools:** VS Code, ThingSpeak, SolidWorks, MATLAB – Simulink, Unity 3D, Vuforia Engine, Excel
- **Operating Systems:** Windows, Linux
- **Robotics:** OpenCV, Arduino, ROS2

PROJECTS

- **PLC-Based Part Detection and Sorting System (IndraWorks, PLC, Sensors)**
Designed and implemented a PLC-based automated part detection and sorting system using optical sensors, developing ladder logic for real-time part classification in a simulated assembly line environment.
- **Augmented Reality Machine Training Application (Unity 3D, Vuforia, C#)**
Independently developed an AR-based industrial training application using Unity 3D and Vuforia, demonstrating interactive visualization of a pipe bending machine's components and operational workflow.
- **IoT-Based Temperature Monitoring and Prediction (Python, Streamlit, Plotly)**
Developed an IoT-based temperature monitoring system integrating sensor data acquisition, real-time visualization dashboards, and regression-based forecasting for anomaly trend analysis.
- **Data Visualization for Business Insights (Excel, Power BI, Pandas)**
Developed interactive dashboards and visual reports to support data-driven decision-making as part of a Tata Consultancy Services data analytics project.

EXPERIENCE AND EXTRACURRICULAR

- **Dixon Technologies** **June 2026 – July 2026**
Production Intern – Supported Google Pixel smartphone assembly operations through root cause analysis, fault investigation, and quality and reliability testing. Collaborated with cross-functional teams on the optimization of a new SMT line, improving throughput from 280 to 410 UPH.
- **Havells India** **December 2025 – January 2026**
Sales Intern – Supported field sales operations through coordination with retailers & distributors, contributing to product promotion activities and gaining insight into demand trends and channel movement.
- **LG India** **June 2025 – July 2025**
Refrigerator Production and Production Engineering Intern – Analyzed end-to-end refrigerator assembly line operations in a high-volume manufacturing plant, focusing on sub-assembly integration, takt time alignment, workstation coordination, line balancing, and in-line quality inspection processes to understand overall production flow and defect control mechanisms.
- **Foundation for Smart Manufacturing, IIT Delhi** **December 2024 – January 2025**
Augmented Reality Intern – Developed an AR-based machine training application using Unity and Vuforia to simulate hardware components and operational flow of a pipe bending machine for structured operator learning.
- **Aventus Capital Public Markets Alternate Strategies LLP, Mumbai** **June 2024**
Stock Market Trainee – Studied fundamental analysis techniques including financial ratio evaluation, valuation models, and long-term investment frameworks to understand corporate financial performance assessment.

ACHIEVEMENTS AND CERTIFICATIONS

- Industrial Internet of Things (IIoT), University of Michigan
- Extended Reality, Univeristy of Michigan
- Finance for Non-Finance Professionals, Rice University
- Excel Skills for Business: Essentials, Macquarie University
- Fundraising for Social Causes at Impact Guru, New Delhi