

# Ankush Ashok Shingade

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## Professional Summary

Electronics and quality engineering professional with experience in testing, validation, automation support, hardware-software integration, and technical problem solving across industry environments. Holds an M.Sc. in Instrumentation from Pune University and brings a strong foundation in electronic systems, instrumentation, embedded concepts, lab-based experimentation, debugging, documentation, and student-oriented technical communication. Interested in contributing as an Assistant Professor in Electronic Science through effective teaching, practical laboratory guidance, curriculum support, mentoring, and academic discipline.

## Core Competencies

- Electronic Science and applied electronics fundamentals
- Analog and digital electronics
- Testing, validation, troubleshooting, and debugging
- Embedded systems and microcontroller concepts
- Laboratory setup, instrumentation, and practical guidance
- Technical documentation and report preparation
- Student mentoring and academic support
- Automation tools and software-assisted testing
- ERP and process-oriented quality workflows
- Cross-functional coordination and presentation skills

## Education

### Master of Science (M.Sc.) in Instrumentation Science

Department of Instrumentation Science, Savitribai Phule Pune University.

### Post Graduate Diploma in VLSI and Embedded Systems

Department of Electronic Science, Savitribai Phule Pune University.

## **Academic and Research Profile**

- Academic background in electronics with exposure to applied research, prototyping, and engineering problem solving.
- Research interest areas include electronics, photonics, optics, embedded systems, sensor-based systems, and practical experimentation.
- Contributor to technical and research-oriented work, including projects and publications related to electronics-based applications.
- Comfortable supporting undergraduate practical sessions, demonstrations, assignments, and project guidance in Electronic Science.

## **Professional Experience**

### **QA Engineer / Test and Validation Professional**

Intel Technology India / Datapro / other technical roles

- Worked on manual and automated testing activities involving validation, defect analysis, process compliance, and technical issue investigation.
- Supported hardware-software testing workflows, system verification, bug tracking, and structured reporting.
- Built experience in root-cause analysis, documentation, coordination with technical teams, and quality-focused execution.
- Applied technical understanding of systems, interfaces, and engineering processes that can transfer effectively into laboratory teaching and practical instruction.
- Used structured methods to analyze failures, document observations, and communicate findings clearly.

### **Engineering and Technical Project Exposure**

- Exposure to hardware bring-up, debugging, electronics-related experimentation, and prototype-oriented work.
- Worked in multidisciplinary environments involving engineering validation, technical support, and process improvement.
- Developed skills useful in academia, including explanation of technical concepts, preparation of records, and disciplined execution of lab procedures.

## Teaching and Academic Strengths

- Able to explain electronics concepts in a simple, structured manner for undergraduate learners.
- Can support theory and laboratory sessions in areas such as basic electronics, digital electronics, instrumentation, microcontrollers, and testing methods.
- Strong documentation habits suitable for lesson planning, practical records, internal assessment support, and departmental coordination.
- Comfortable guiding students in mini-projects, experiments, presentations, and technical report writing.
- Brings industry perspective that can help connect classroom theory with real-world applications.

## Selected Technical Skills

- Manual testing and automation support
- Selenium, Jenkins, Docker, CI/CD exposure
- Debugging and validation workflows
- Basic programming and scripting knowledge
- Java and Node.js exposure
- Test case design, defect reporting, and quality processes
- MS Office, documentation, spreadsheets, and technical presentations

## Publications and Projects

- Ankush Shingade et al., "Design and verification of Current steering segmented Digital to Analog Converter", GJTE. Vol. 2, no. 4, pp. 92–97, 2015
  - Ankush Shingade et al., "Study of Optical Add/Drop Multiplexer using 4x4 Multimode Interference for Photonic Integrated Circuits", NCAEIA-2014
  - Ankush A. Shingade et al., "Development of E-nose for Inspection of Spices", National Conference on Olfaction and E-nose, 2012
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## Additional Information

- Strong interest in academic, research, and student-development roles.
- Experience in structured technical environments with emphasis on discipline, clarity, and measurable outcomes.