



# Nishant Mishra

## Research Engineer

### Contact

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📍 Enschede, Nederland



[nishant-mishra.com](http://nishant-mishra.com)

### Hard Skills

- X-ray Diffraction
- Atomic Force Microscopy
- Mask design, process planning and cleanroom processing
- Programming: Python, MATLAB, C++
- Electrical characterization
- Basic chemical lab skills
- RF Magnetron Sputtering
- White light interferometry
- 3D Printing

### Soft Skills

- English (C1), Dutch (B1)
- Cross-Disciplinary and Intercultural Communication
- Analytical Problem Solving
- Strategic Presentation and stakeholder awareness
- Self-driven and adaptable

### Education

Electrical Engineering (M.Sc.)

University of Twente, Enschede

Sep 2019 - Aug 2021

- Specialization: Lab on a Chip systems
- Thesis link [here](#)
- [Research Honours](#) graduate

Electrical and Electronics Engineering (B.Tech.) - First Division

GGSIPIU, Delhi

Aug 2014 - May 2018

### About Me

Adaptable Research Engineer at the University of Twente with experience working in international, interdisciplinary teams demonstrating a structured, stakeholder oriented approach to solving complex microfabrication challenges.

### Professional Experience

University of Twente, XUV Optics group | Research Engineer | Piezoelectric Thin Films | [14AMI EU project](#)

Jul 2023 - Present

- Thin film deposition, cleanroom patterning, characterization
- Process documentation and creating SOPs
- Commissioning, maintenance and upgrades of research setups
- Troubleshooting

Twente Pathway College | Teacher- Physics, Module Coordinator- Computer Science, Project 3

Sep 2021 - Jun 2023

- Organization and coordination for the course 'Computer Science'
- Instruction, assessment, and curriculum development
- Project design and supervision

ECsens (now OccamDx) | Research Intern

Jul 2020 - Dec 2020

- Semiconductor mask design
- Electrochemical experiments
- Data analysis

CARE, IIT-Delhi | Research Intern

Jun 2017 - Sept 2019

- Biomemristor fabrication
- Electrical Characterization of bio-FET, EIS, and Memristive Devices
- Data analysis

### Publications

2019 [Vancomycin functionalized WO3 thin film-based impedance sensor for efficient capture and highly selective detection of Gram-positive bacteria](#)

2019 [MoS2/TiO2 Hybrid Nanostructure-Based Field-Effect Transistor for Highly Sensitive, Selective, and Rapid Detection of Gram-Positive Bacteria](#)

### Awards

2021 [FOBOS Activism grant](#) for being in a part time board

2020 [FOBOS Activism grant](#) for being in a part time board