



# Nishant Mishra

## Researcher & Educator

### Contact

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📍 Enschede, Nederland



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

### Hard Skills

- Semiconductor mask design, process flow design, and wafer processing
- Programming: Python, MATLAB, C++
- Electrical and spectroscopic characterization
- Basic Wet lab skills

### Soft Skills

- English (C1), Dutch (B1)
- Leadership
- Communication across academic and cultural backgrounds

### Education

- University Teaching Qualification (BKO)  
*University of Twente, Enschede*  
Ongoing
- 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.)  
*GGSIPU, Delhi*  
Aug 2014 – May 2018
  - First Division

### About Me

I am a researcher and educator with an interest in microfabrication. Eager learner, organized worker, and good communicator.

### Publications

- 2019 [Vancomycin functionalized WO<sub>3</sub> thin film-based impedance sensor for efficient capture and highly selective detection of Gram-positive bacteria](#)
- 2019 [MoS<sub>2</sub>/TiO<sub>2</sub> Hybrid Nanostructure-Based Field-Effect Transistor for Highly Sensitive, Selective, and Rapid Detection of Gram-Positive Bacteria](#)

### Professional Experience

University of Twente, XUV Optics group | Research Engineer

*Jul 2023 – Present*

- Semiconductor Fabrication and Characterization

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 FET, EIS, and Memristive Devices
- Data analysis

### Awards

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