



Nishant Mishra

Researcher & Educator

Contact

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Hard Skills

- Semiconductor mask design, process flow design, and wafer processing
- Electrical and spectroscopic characterization
- Basic wet lab skills
- FEM simulations

Soft Skills

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

Education

- University Teaching Qualification (BKO)
University of Twente, Enschede
Nov 2021 – June 2022
- Electrical Engineering (M.Sc.) – 7.25
University of Twente, Enschede
Sep 2019 – Aug 2021
 - Specialization: Lab on a Chip systems
 - Thesis description [here](#)
 - [Research Honours](#) graduate
- Electrical and Electronics Engineering (B.Tech.)
GGSIPIU, Delhi
Aug 2014 – May 2018
 - First Division

About Me

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

Passionate about research, I am looking for a role where I could use and develop my skills.

In my free time, I like to go on biking trips, cook and play guitar.

Professional Experience

Twente Pathway College | Teacher- Physics, Computer Science

Sep 2021 – Present

Key responsibilities:

- Module coordination for Computer Science
- Course development, instruction, and assessment
- Project supervision

ECsens | Intern

Jul 2020 – Dec 2020

Key responsibilities:

- Semiconductor mask design
- Electrochemical experiments
- Data analysis

CARE, IIT-Delhi | Research Intern

Jun 2017 – Sept 2019

Key responsibilities:

- Biomemristor fabrication
- Electrical Characterization of 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

2020 [FOBOS Activism grants](#) for being in a part time board and
2021