

# Curriculum Vitae

## Personal Details

**Name:** Vandana Jain  
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**Gender:** Female  
**Nationality:** Indian  
**Current Position:** Postdoctoral Fellow  
(Since July 2019)  
**Language:** English,  
Hindi (Mother Tongue)



## Education

Year	Degree/Certificate	Institution	CGPA/%
2014-2018	Ph.D., Electronics & Communication Engineering (CVN*)	Visveswaraya National Institute of Technology Nagpur (VNIT), MH, India	8.5/10
2011-2013	M. Tech., Optoelectronics (Optical Communication)	Shri Govindram Seksaria Institute of Technology and Science Indore (SGSITS), MP India	8.3/10
2005-2009	B. E., Electronics & Communication Engineering.	Laxmi Narayan College of Technology, Bhopal, MP, India	72.97%

\*Center for VLSI and Nanotechnology

## Fields of interest

Embedded System Design, Internet on Things, Lab-on-Chip, Microfluidic, Electrowetting-on-Dielectric (EWOD) Devices, MEMS

## Research experience

**Postdoc** (Supervisor: Prof. K. Muralidhar, Mechanical Engineering, Indian Institute of Technology Kanpur)

- EWOD-Based Low-Cost Portable Medical Diagnostic System (July 2019 - Present)

**Ph. D. Thesis** (Supervisor: Prof. Rajendra M. Patrikar, Mechanical Engineering, Indian Institute of Technology Kanpur)

- Design and Fabrication of a Low-Cost Open EWOD Based Dynamic Sensing System (Jan 2014 - Sept 2018)

**M. Tech. Thesis** (Supervisor: Dr. Joseph Thomas Andrews, Department of Applied Physics and Optoelectronics, Shri G. S. Institute of Technology & Science, Indore)

- Fabrication of Bio-MEMS using X-ray lithography. (July 2011 - Jun 2013)

**B. Tech. Project** (Supervisor: Dr. Richa Jain, Electronics and Communication Engineering, LNCT, Bhopal)

- Designing of Dancing 8 × 8 LED system based on sound sensor (July 2005 – June 2009)

**Sponsored Projects Experience** (PI: Prof. Rajendra M. Patrikar & Co-PI: Prof. Raghavendra Deshmukh)

- Design and Fabrication of Equipment for Microfluidic Study by NPMASS (Jan 2014 – June 2015 2020)

## Publications

Journals (6) and Conferences (4). **Details:** <https://scholar.google.co.in/citations?user=1oy168cAAAAJ&hl=en>

## Skills

**Instruments:** Drop shape analyzer, X-ray & UV lithography, Sputtering system, AC-DC characterization (Kettley)

**Softwares:** COMSOL, MATLAB, Qt app designing software, OpenCV image processing software, KiCad/Eagle, C, C++

## Academic achievements/fellowships

- Got selected **Best Innovation System** in VNIT, Nagpur (2018), and subsequently represented our low-cost, portable dynamic droplet sensing system on behalf of VNIT in “Festival of Innovation and Entrepreneurship 2018” at **Rashtrapati Bhawan**, New Delhi, 19<sup>th</sup> – 21<sup>st</sup> March 2018.
- V DAT Research Fellowship** in the 21<sup>st</sup> International Symposium on VLSI Design and Test (VDAT-2017), IIT Roorkee from 29<sup>th</sup> June- 2<sup>nd</sup> July 2017.
- Got **the best paper award** in the 8<sup>th</sup> ISSS National Conference held at IIT Kanpur from Springer.

## Post-PhD experience

- 2 Year and 3 Month (Institute Postdoctoral Fellow at IIT Kanpur, Uttar Pradesh, India) from July 2019-Present
- 4 Month (Research Engineer at VNIT Nagpur, Maharashtra, India) from Jan 2019-April 2019
- 6 Month (Assistant Professor at Oriental group of institutes Bhopal, Madhya Pradesh, India) from July 2018-December 2018

## Pre-PhD experience

- 1 Year (Lecturer, Scope College of Engineering Bhopal, Madhya Pradesh, India) from Jul 2011-Aug 2012

## Other experiences

- Gained experience in completing the NPMASS project under Prof. Rajendra M. Patrikar and Prof. R. B. Deshmukh.
- Experience in successfully delivering the Microfluidic Characterization Setup (Mi-Char) at IIT Kanpur, IIT Bombay, IISc Bangalore, and Sitar, Bangalore under the NPMASS Project.
- Gained experience in arranging and taking sessions in STTP, IEP, and GiAN courses.
- Experience in guiding/ mentoring and training postgraduate students for their master's degree projects and helping them out in every possible way