

Suryansh Dongre

Career Objective:

Want to excel in scientific research to apply the gained knowledge for betterment of community.

Current Position:

Ph.D. Scholar

Department of Electrical Engineering,
Indian Institute of Technology, Bombay.
(Thesis Submitted on 28th Jan 2022)
Supervisor: Prof. Subhananda Chakrabarti

Thesis Title: "Development of room temperature operable SWIR quantum dot photodetectors in p-i-p configuration".

- Achieved response at optical fiber communication wavelength of 1.55 μ m.
- Expertized in material characterization. Tool owner of cryogenic photo-luminescence setup for 1 year.
- Simulations with Nextnano++ software that employs 8-band k.p model.
- Exposure to device characterization tools, Cryogenic I-V (T), Spectral measurement with FTIR and Photocurrent measurement with FFT analyzer.

Publications:

Dongre, Suryansh, et al. ACS Applied Electronic Materials (2020) 2 (5), 1243-1253. (I. F. 3.314)
Dongre, Suryansh, et al. "Journal of Luminescence, (2020) 226, 117499. (I. F. 3.599)

Awarded with best TA award for EE728

"Growth and Characterization of Nano-electronic Materials"

T Aship in many courses:

- EE112 Introduction to Electronics
- EE221 Digital Electronics (Minor Course)
- EE733 Solid State Devices
- EE728 Growth and Characterization of Nano-electronic Materials
- EE101 Introduction to Electrical and Electronic Circuits
- EE207 Electronic Devices and Circuits

Background:

Master of Science (Engineering) (M.Sc. Eng.)
Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore.
Supervisor: Prof. G. Mohan Rao and Prof. Sanjiv Sambandan

Thesis Title: "Crystalline Silicon Carbide Thin Films for Ultraviolet Detection".

- Reactive DC Magnetron sputtering of SiC on Si substrate
- Characterization with XRD, FTIR and Raman.
- Device Characterization with source meter and mercury lamp

Bachelor of Engineering (B. E.)

University Institute of Technology, Rajiv Gandhi Prodyogiki Vishwavidyalaya, Bhopal.
CGPA: ~ 6.68/10
Major Project: RFID Based Traffic Control System

Apart from Academics

Part of dramatics club "Rangmanch" and "Dance Club" in IISc

Personal Details:

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