RESUME

PRASENJIT DEB

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OBJECTIVE:

To obtain a challenging and responsible position in electronics and nanotechnology, where, I can contribute to the successful growth of technology using my abilities and knowledge. "There is always a better way of doing things" is the common belief.

PERSONALITY TRAITS:

- Device physics
- Electromagnet & Transmission line
- Communication
- Basic Electronics
- Low power VLSI

CAREER SUMMARY

- I got first prize in B.E. project on industrial level and inter college level.
- Attended various technical workshops and faculty development programs.
- I cleared the GATE examination 2014 and scored 446.
- Global Initiative of Academic Networks (GIAN) participant two times.

THESIS

- My B.E. thesis was on "**Smart Energy Meter with Temper Detection**" using IC EM773(Phillips), 2014.
- My M-TECH thesis was on "**Leakage Reduction Methodology & Its Application in Low Power SRAM Design**", 2016.
- I have submitted my PhD thesis on "**Investigation on TiO_2 Nanowire/ Modified GO Thin Film p-n junction based UV Photodetector"**2020.

MY EDUCATION HISTORY

Examination	Institution	Education Board	Month/Year	Subject	CPI
B.E	**Birla Vishvakarma Mahavidyalaya (GOV.)**	**Gujarat Technological University**	**2010-2014**	**Electronics Engineering**	**6.97**
M-TECH	**National Institute of Technology , Arunachal Pradesh**	**National Institute of Technology , Arunachal Pradesh**	**2014-2016**	**Electronics and Communication Engineering**	**8.6**
PhD	**National Institute of Technology , Nagaland**	**National Institute of Technology , Nagaland**	**2017 to 2020(Thesis Submitted)**	**Electronics and Communication Engineering**	**8.0 (Course work)**

PUBLISHED PAPERS:

Journals (SCI)

1. Prasenjit Deb and Jay Chandra Dhar, 2020. Boosted Photoresponsivity using Silver Nanoparticle Decorated TiO2 Nanowire/ Reduced Graphene Oxide Thin-Film Heterostructure. ***IOP Nanotechnology***, 31(28) 285202.
2. Prasenjit Deb and Jay Chandra Dhar, 2019. Low Dark Current and High Responsivity UV Detector Based on TiO2 Nanowire/RGO Thin Film Heterostructure. ***IEEE***

Transactions on Electron Devices, 66(9) 3874 – 3880.

3. Prasenjit Deb and Jay Chandra Dhar, 2019. Fast Response UV Photodetection Using TiO2 Nanowire/Graphene Oxide Thin-Film Heterostructure. ***IEEE Photonics Technology Letters***, 31(8), pp.571-574.
4. Prasenjit Deb and Jay Chandra Dhar, 2018. Enhanced absorption and photoemission from TiO2 nanowire/graphene oxide thin-film heterostructure. ***Journal of Electronic Materials,*** 47(10), pp.6078-6085.
5. Communicated 3 SCI index journals (under review)

Conferences (IEEE)

1. Prasenjit Deb and Jay Chandra Dhar, "TiO2 Nanowire/ GO Thin Film Hybrid Structure for PhotodetectionApplication" **IEEE-TENCON**, kerala 2019.

2. A. Majumder, Prasenjit Deb , and S. K Yadav "Power and Energy Efficient Logic Design using Stacking Effect of Transistors", **IEEE-ICEEOT** 2016.

3. Prasenjit Deb and A. Majumder " Leakage Reduction Methodology of 1-bit Full Adder in 180nm CMOS Technology", **IEEE-ICDCS** 2016.

TECHNOLOGYCAL SOFTWARE KNOWN

- C.C++,
- Verilog,
- Vivado
- Mat-lab,
- LT-Spice,
- Cadence,
- Origin,
- Silvaco,

MACHINE OPERATE

- Electron Beam Deposition (BC 300, HHV, India)(GLAD technique)
- Thermal Deposition (HHV, India)
- RF DC magnetron sputtering system (HHV smart coat 3 (D1217), India)
- Spin coating (Apex Spin NXG-P1)
- UV-Vis absorption system (Hitachi UH4150, Japan)
- Semiconductor characterization system (Keithley 4200, US)

TEACHING:

During ongoing Ph.D., I am serving as Teaching Assistant for conducting various theory and laboratories classes such as:

S. No.	Name of the Subject	Subject Code	Season
1.	Microprocessors and Microcontrollers	EC 254	Jan-June 2017
2.	Wireless Sensor Networks	EC 911	July-Dec 2017
3.	Transmission Lines and Wave Guides	EC 353	Jan-June 2018
4.	VLSI Design Laboratory	EE 403	July-Dec 2018
5.	Transmission Lines and Wave Guides	EC 353	Jan-June 2019
6.	Wireless Sensor Networks	EC 911	July-Dec 2019

PERSONAL DETAILS:

Name	**:**	PRASENJIT DEB
Father's Name	**:**	BRAJA GOPAL DEB
Date of Birth	**:**	25 Jan. 1992
Nationality	**:**	INDIAN
Gender	**:**	Male
Marital Status	**:**	Single
Communication Address	**:**	Road No- 06 AGARTALA, TRIPURA 799003 INDIA.

"I hereby declare that the above information's are true to best of my knowledge**."**

Aug.' 2020