

# RESUME

**Dr. PRATISTHA BRAHMA**

## PERSONAL DETAILS

E-mail :pratistha.titli07@gmail.com  
Mobile No :+91-8250846089  
Date of Birth :24-10-1991  
Gender :Female  
Marital Status :Un-married  
Languages Known : English, Hindi and Bengali  
Address : Cooch Behar, West Bengal, PIN 736101, India



## CAREER OBJECTIVE

To take up prospective challenges as career opportunities and grows with honesty, good relationship, and best performance, and translate my experience, knowledge, skills and abilities into value for an educational institution.

## EDUCATIONAL QUALIFICATIONS

Degree/ Course	University/ Board	Name of Institution	Specialization	Year of Passing	Percentage / CGPA
Ph. D.	NIT Silchar	NIT Silchar	Antenna array optimization	2015-2021 (Degree Awarded)	7.76 (Course work)
M. Tech	KIIT University	KIIT University	Communication System Engg.	2013-2015	9.19
B. Tech	Bengal College of Engg. Technology	WBUT	Electronics and Communication Engineering	2009-2013	7.08
12 <sup>th</sup>	WBCHSE	Sunity Academy	Science	2009	75.6%
10 <sup>th</sup>	WBBSE	Sunity Academy	-	2007	90.6%

## TEACHING EXPERIENCE

- Assistant Professor, Electronics and Communication Engineering Department, Parul Institute of Engineering and Technology, Parul University, Limda, Vadodara, Gujarat (02/08/2021-15/12/2021)

## TRAINING

- BSNL, Kolkata, West Bengal, Under went three-weeks winter training on “telecommunication switching system”
- North Frontier Railway, DRM office, Alipurduar, West Bengal, Underwent 15 days summer training on “modern signaling system”

## ACADEMIC PROJECTS

**National Institute of Technology Silchar, Assam, India**

July, 2015 – July 2020

### Doctor of Philosophy

- “Design and optimization of antenna array with equal and unequal split power dividers”. (Supervised by Dr. B. Basu, Asst. Prof. NIT Silchar)

**Master of Technology**

- “Thinning Of Phased Array Antenna Using Some Bio-Inspired Algorithm (Genetic Algorithm and Particle Swarm Optimization And Tschebyscheff Distribution)” (Supervised by Dr. Jibendu Sekhar Roy, Prof., KIIT University)

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**PUBLICATIONS**

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**International Journals**

1. **P. Brahma, P. Nandi, A. Senapati, J. S. Roy**; “Reduction Of Sidelobe Level Of Thinned Phased Array Antenna Using Genetic Algorithm”; *International Journal of Computer Application*, Vol 112, no-8, pp-13-15, February 2015.
2. **Pratistha Brahma, Banani Basu**; “Synthesis of Sparse Linear Array Using State Transition Algorithm”, *International Journal of Advanced Intelligence Paradigms (IJAIP)*; INDERSCIENCE (accepted, in press).
3. **Pratistha Brahma, Banani Basu**, “Improving the Performances of Microstrip Antenna Array Using Defected Ground Structure”, *International Journal of Innovative Technology and Exploring engineering*; ELSEVIER, vol.9, issue 3, pp: 1081:1086. DOI:10.35940/ijitee.B7527.019320
4. **P. Brahma, B. Basu, S. Dutta**, “Design of a Four Elements Antenna Array using Gysel Power Divider with Unequal Power Distribution”, *Engineering Report; Wiley*. (in press)
5. **P. Brahma, B. Basu**, “A Review on Improvement of the Radiation Characteristics of Antenna Array”, *International journal of Engineering Research and Application* (in press)

**International Conferences**

6. **P. Brahma and B. Basu**, "Design of Unequally Excited Two Elements Antenna Array using Gysel Power Divider," *2019 International Conference on Automation, Computational and Technology Management (ICACTM)*, London, United Kingdom, 2019, pp.441-443. doi: 10.1109/ICACTM.2019.8776808

**Book Chapter**

7. **Pratistha Brahma and Banani Basu**, “Design of Dual Band 1×2 Antenna Array using Wide Band Wilkinson Power Divider”, *Proceedings of the 2nd International Conference on Communication, Devices and Computing*, pp 77-86, Haldia, Kolkata, India, Book chapter, December 2019, Springer, Online ISBN: 978-981-15-0829- 5. DOI :10.1007/978-981-15-0829-5\_8

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**CAREER ACHIEVEMENTS**

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- Student branch Chapter Chair of IEEE WIE (WOMEN IN ENGINEERING) NIT Silchar

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**SUBJECTS OF INTEREST**

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- Antenna and Satellite Communication
- Wireless communication
- Microwave and RF communication
- Electromagnetic and Field Theory

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**LAB/COURSES TAKEN DURING TEACHING PERIOD**

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- Digital Electronics

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**LAB/COURSES TAKEN DURING T.A. DUTY IN PH. D. DEGREE**

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- DSP
- Advance communication system
- Microprocessor
- Basic Electronics
- ControlSystem

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**MEMBERSHIP (ID: 93916318)**

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- IEEE Antenna and PropagationSociety
- IEEE Women inEngineering (Student Branch chapter chair)

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**TECHNICAL SEMINARS, TRAININGS AND WORKSHOPS**

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- Attended workshop on “Recent Advancement in Microwave Engineering (RAME-2019)” at NIT Silchar sponsored by TEQUIP-III, forth duration of April1-5,2019.
- Attended workshop on “Antenna Design and Wireless Communication” at NIT Silchar organized by E&TC academy, IIT Guwahati for the duration of April26-27August,2016.
- Attended one week workshop on Summer School on Antenna and Microwave Engineering (SUSAME-2018)at NIT Silchar organized by Dept. of ECE during23-27July,2018.
- Attended one week workshop on „Advanced School of Antennas 2019” at School of Electronics Engineering, KIIT university, Bhubaneswar, sponsored by IEEE AP/MTT Kolkata during 20-24June, 2019.
- Attended two days “Invited Lecture Series on Uncertainties in Wireless Communication: Challenges and Opportunities” at Dept. of ECE, NIT Silchar, sponsored by TEQUIP-II during 24-25 February,2017.

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**SOFTWARE SKILLS**

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- Software: MATLAB, HFSS

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**EXTRA CURRICULAR ACTIVITIES**

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- Organizing member for “Research Conclave on Recent Innovations in Science and Engineering (RISE 2017)” held during 24-26 March, 2017 at NIT Silchar.
- Organizing member for “Inspire Science Camp2016”,sponsored by DST, held during 5-9 July,2016 at NIT Silchar.

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**REFERENCES**

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- Dr. Fazal A. Talukdar  
Professor, Department of Electronics and Communication Engineering,  
National Institute of Technology, Silchar, Silchar, Assam, India, PIN: 788010  
Phone: +91-9613871119, Email: fazal@ece.nits.ac.in
- Dr. Banani Basu (Ph.D Supervisor)  
Assistant Professor, Department of Electronics and Communication Engineering,  
National Institute of Technology, Silchar, Silchar, Assam, India, PIN: 788010  
Phone: +91-8474801115. Email: banani@ece.nits.ac.in
- Dr. Jibendu Sekhar Roy (M.Tech Supervisor)  
Professor, Program Head (M Tech: RF & Microwave Engineering)  
School of Electronics Engineering, Kalinga Institute of Industrial Technology,  
KIIT Road, Patia, Bhubaneswar, Odisha 751024, India  
Phone- +91-9438009065. Email: drjsroy@kiit.ac.in

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**DECLARATION**

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I hereby declare that the information furnished above is true to the best of my knowledge.

Thanking You

Date: 01/01/2022  
Place: Vadodara

Yours faithfully

*Pratistha Brahma*

(Pratistha Brahma)