Avrajyoti Dutta — Curriculum Vitae

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To work in a challenging environment providing latest procedure where I can lay my expertise to the organization's best use and make myself versatile in various skills thus pursue a challenging and growth-oriented career. Eager to contribute highly applicable skills, and ability to personalize service delivery for analyzing the needs and translating them into executable strategies for the organization.

Education

AGH University of Science and Technology (AGH UST)　　　　　**Kraków, Poland**
Doctoral Student, 3rd year　　　　　*2021-*
Topic: Network factors affecting the quality perceived by users of video services: research using ecologically relevant assessment standards.

Birla Institute of Technology　　　　　**Mesra, Ranchi, India**
Master's in electronics and telecommunication engineering, CGPA: 7.8　　　　　*2012-2014*
(Specialization: Wireless Communication)

Janardan Rai Nagar Rajasthan Vidyapeeth University　　　　　**Udaipur, Rajasthan, India**
Bachelor in Technology, CGPA: 7.34　　　　　*2008-2011*
(Specialization: Electronics and tele-communication engineering)

West Bengal State Council of Technical Education　　　　　**Kolkata, West Bengal, India**
Diploma in Engineering, CGPA: 7.28　　　　　*2005-2008*
(Specialization: Electronics and tele-communication engineering)

Academic Experience

- Assistant professor for 7.5 years. (2014 - 2021)
  In the department of Electronics and Communication Engineering, under Maulana Abul Kalam Azad University of Technology (Formerly known as WBUT) at Future Institute of Engineering and Management, Sonarpur, Kolkata, West Bengal, India-700150

Industry Experience

- Radio Frequency Engineer in Reliance Communications for 1 year. (2011-2012)
  - Sector wise optimization of radio frequency by through drive test in GSM cellular communication.
  - Instructor of Drive Test & Optical fiber splicing.
  - Supervision of BTS (Hardware & Software).

Technical and Personal skills

- **Programming Languages**: BASIC, C, C++, HTML, PHP, JAVA, Python
- **Engineering Softwares:** MATLAB (ver: R2013a), Agilent Advanced Design System (v2011.10), Mentor Graphics IE3D (v4.1), Microwind DSCH (v3.5), OPNET Modeler (v14.5), Ansoft HFSS (v13.0), TCAD Silvaco (2018), PSpice, Git
- **Operating Systems:** Linux/ Ubuntu 22.10, Windows XP, Vista, 7, 8, 10 and 11
- **MS Office 365:** Word, Excel and PowerPoint.

Membership of Professional Bodies:

- IEEE Member (#92406306)

Publications

- Published (2021): Experimental Investigations to Improve the Electrical Characteristics of Nitride-Based Nanoelectronic High Electron Mobility Transistors. **Journal of Semiconductor Devices and Circuits**, Volume: 8, Issue: 1, Pages: 14-30, September, 2021
- Published (2021): Investigation to Enhance the DC and RF Performances of Nitride-Based Nanoelectronic HEMTs. **Indian Journal of Pure & Applied Physics**, Volume: 59, Issue: 9, Pages: 619-628, September, 2021
- Published (2021): Comparative studies on the DC and RF performances of conventional HEMT and double quantum well heterostructure. **Optical and Quantum Electronics**, Volume: 53, Issue: 2, Pages: 1-14, February, 2021
- Published (2020): Effects of Drain Voltage, Gate Voltage and Aluminum Mole Fraction on Drain Current in GaN based SingleHeterojunction HEMTs designed with AlGaN Nano-Layers. **Nano Trends-A Journal of Nano Technology & Its Applications**, Volume: 22, Issue: 1, Pages: 6-14, June, 2020
- Published (2020): Drain Characteristics of GaN based Single-Heterojunction HEMTs with Variations in Gate Length and in Thickness of AlGaN Nano-Layer. **Journal of Nanoscience Nanoengineering and Applications**, Volume: 10, Issue: 1, Pages: 1-10, June, 2020
- Published (2020): Studies on the Electrical Characteristics of GaN based HEMTs at the AlGaN Nano-Layer Thickness of 9 nm. **International Journal of Nanomaterials and Nanostructures**, Volume: 6, Issue: 1, Pages: 14-28, June, 2020
- Published (2020): Electrical Characteristics of Nano electronic Double-Hetero junction High Electron Mobility Transistors. **Journal of Semiconductor Devices and Circuits**, Volume: 7, Issue: 1, Pages: 18-28, May, 2020
- Published (2019): Studies on the Electrical Characteristics of Single-Heterojunction GaN based HEMTs with AlGaN Nano-Layer of 21 nm. **International Journal of Applied Nanotechnology**, Volume: 5, Issue: 2, Pages: 26-38, November, 2019

Extra-Curricular Activities:

- Attended a workshop on ADS, RF SYSTEM DESIGN and Ptolemy TRAINING organized by Department of Electronics and Communication Engineering, BIT, Mesra, Ranchi, India in association with Agilent Technologies.
- Participated in Distinguish Lecture Program on the topic "Smart Body Sensor Object Networking", organized by IEEE Communication Society at Department of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, India.
- "Progammable Logic Controller and Its applications in Process Automation" training from Institute of Engineering & Management, Salt Lake, Sector V, Kolkata, India.
- Diploma in Computer Hardware (A+) and Networking (N+) from BRAINWARE, Kolkata, India.
- Vocational Training from S.E. Railway and BSNL (Kharagpur) on "Optical Fiber Communication".

Personal Abilities & Skillsets:

- Possess Microelectronics, Computer Networking, Cyber Security, Encryption Technology.
- Energetic, Optimistic and Creative, Positive attitude to learning and self-development.
- Self-motivated and comfortable working in teams, ready to take up challenges and responsibilities.

Declaration:

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on theprotection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation). I also consent to processing of my personal data for the purposes of any future recruitment processes."

December 4, 2023   Avrajyoti Dutta
Place: Kraków, Poland