

AVIK KUMAR DAS

Research Scholar

📍 Kolkata, India
✉ DSP Lab, Dept. of ETC, Indian Institute of Engineering Science And Technology, Shibpur, India- 711103
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EXPERIENCE (3.5 YEARS)

Assistant Professor (1 Year 6 Months)

West Bengal University of Technology (MAKAUT)

📅 March 2017 – August 2018 📍 Seacom Engineering College

Examiner (1 Year)

West Bengal University of Technology (MAKAUT)

📅 July 2017 – August 2018 📍 WBUT, Kolkata, India

IT Support Executive (2 Years)

Goldstar Technology

📅 August 2012 – July 2014 📍 Kolkata, India

PUBLICATIONS

👤 Publications

- Das, A. K., & Pramanik, A. (2022). Image transmission in uwa channel using ofts. In *Proceedings of international conference on energy systems, drives and automations*, Springer.
- Das, A. K., & Pramanik, A. (2021). A survey report on underwater acoustic channel estimation of mimo-ofdm system. In *Proceedings of international conference on frontiers in computing and systems* (pp. 745–753). Springer, Singapore.
- Das, A. K., & Pramanik, A. (2020). A survey report on deep learning techniques in underwater acoustic channels. In *Computational intelligence in pattern recognition* (pp. 407–416). Springer.
- Pramanik, A., & Das, A. K. (2020). A novel high rate ldpc code. In *Proceedings of the 21st international conference on distributed computing and networking* (pp. 1–4).

TRAINING AND COURSES

📖 Enabling Technologies for Electric Transportation
by MNIT Jaipur and Concordia University, Canada.SPARC Sponsored

📖 Cyberphysical Digital Microfluidic Biochips in Healthcare Technologies and Applications
IIEST, Shibpur, SPARC, Sponsord

📖 Digital Humanities Course
IIEST, Shibpur

📖 GIAN (Global Initiative for Academic Networks) Course
IIEST, Shibpur

📖 Training in BSNL on Wireless and Mobile Communication, Networking.
NSCBTTC, Kalyani

RESEARCH INTEREST

📶 **Underwater Acoustic Communication:** Channel estimation, detection, OTFS, MIMO, Acoustic modem design
⚙️ **ML, NLP and Deep Neural Network:** CNN, RNN in image and channel models, NLP for imbalanced data handling
✉️ **Wireless communication and Signal processing** OTFS, voice and image processing
🌐 **Internet of Things (IoT):** to apply IoT in real-time and remote monitoring applications
💡 **Non binary LDPC Codes** for error control in the detector
💡 **Visible Light Communication VLC:** For application in GPS denied areas
📶 **Cognitive Radio Networks** Secure energy efficient and fast communication

EDUCATION

🎓 Ph.D. in Electronics and Telecommunication Engineering

IIEST, Shibpur,Howrah

📅 August 2018 – Present

🎓 M.Tech. in Information and Communication Engineering

IIEST, Shibpur,Howrah

📅 June 2014 – May 2016

🎓 B.Tech. in Electronics and Communication Engineering

West Bengal University of Technology

📅 August 2008 – June 2012

🎓 Higher Secondary (10+2) Math Phy Chem Bio

WBCHSE, Rajbalhat High School

📅 May 2007

🎓 Secondary (10 Madhyamik)

WBBSE, Rajbalhat High School

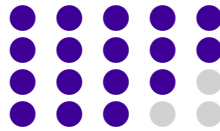
📅 May 2005

PROJECTS

- 1. Underwater acoustic modem design
August 2019 to present
- 2. Development of UV and IoT Based Sensor for Online Water Quality Monitoring and

LANGUAGES

English
Bengali
Hindi
Sanskrit



HONORS AND AWARDS

► Prize in photography competition by Botanical Survey of India (BSI) at AJC Bose Indian Botanic Garden

► Speaker in the webinar on Realization and Application of Low Pass Filters using FPGA

Organised by Digital System Design · Jan 2022

► Goalkeeper of IEST Shibpur

2015 to present

► BFA Bachelor of Fine Arts

Issued by Surabharati Sangeet Parishad

PERSONAL DETAILS

► Father's Name: Mr. Dipak Kumar Das

► Mother's Name: Mrs. Anita Das

► Permanent Address: Village:Mukundapur, P.O :- Rajbalhat

District: - Hooghly, PIN: 712408, West Bengal, India

► Date of Birth: 21-12-1989

► Gender: Male.

► Marital Status: Single.

► Hobbies and interests: Football, Playing guitar, Photography, Painting, Short films, Bike riding, Making vlogs.

REFERENCES

► Prof. Ankita Pramanik

► Indian Institute of Engineering Science And Technology, Shibpur

@ ankita@telecom.iests.ac.in

► Prof. Santi Prashad Maity

► Indian Institute of Engineering Science And Technology, Shibpur

@ santipmaity@it.iests.ac.in

► Prof. Gopal Chandra Roy

► Indian Institute of Engineering Science And Technology, Shibpur

@ gcr@mining.iests.ac.in

Development of UV and IoT Based Sensor for Online Water Quality Monitoring

Feb 2021 - Present

► 3. Underground Mine Monitoring System

October 2020 to present

► 4. Real Time Fog Dehaze:

July 2021 to present

► 5. Energy Efficient and Secured Spectrum

Sensing in Cognitive Radio Networks Energy

Efficient and Secured Spectrum Sensing in

Cognitive Radio Networks (M.Tech project)

Oct 2014 - May 2016

► 6. Mineature FM transmitter. (B.Tech project)

TEACHING ASSISTANTSHIP

► Digital Image Processing and Computer

Vision Lab 2018 to present

Matlab, Code Composer Studion, TMS320C6748

► Digital Signal processing Lab 2018 to

present

Matlab, Code Composer Studion, TMS320C6748

► Communication Engineering Lab 2016

Digital communication experiments

► Computer Network Lab 2016

► Operating system Lab 2016

SKILLS

> Coding: Python, R, sql, C

> Publishing: LATEX

> FPGA, Matlab, LabVIEW

> CCS, TMS320C6748, Adobe Photoshop

> Raspberry pi, Arduino, Eagle PCB

> Web Development: Html

I hereby declare that the above written particulars are true to the best of my knowledge and belief.