

Joynath Mishra

Curriculum Vitae

Sri SD Mishra Bhawan
27/36 JC Road
Khagra, Berhampore
Murshidabad, WB 742103
☎ +91 9046174189
✉ jaynath4025@gmail.com
🌐 jay-mishra
✉ joynath.mishra@iitkgp.ac.in



"To stand my life towards highly motivated progressive technological world through pilot training of higher education and gain some expertise on sensor based systems and analysis for social improvement and tackle with real time problem scenario." - J Mishra

Education

- Jan, 2017–Present **PhD in Remote Sensing (Mining Study Area)**, Indian Institute of Technology, Kharagpur.
INDIA
- 2012–2014 **Master of Engineering in Electronics and Instrumentation Engineering, TCPA – 80.4%**, The University of Burdwan, West Bengal.
INDIA
- 2008–2012 **Bachelor of Engineering in Applied Electronics nad Instrumentation Engineering, TCPA – 75.8% (First Class Honours)**, The University of Burdwan, West Bengal.
INDIA
- 2005–2007 **Higher Secondary in Science, Marks – 74%**, West Bengal Council of Higher Secondary Education, West Bengal.
INDIA
- 2003–2005 **Madhyamik Examination, Marks – 73% (First Division)**, West Bengal Board of Secondary Education, West Bengal.
INDIA

Master's Thesis

- Title** Development of Quartz Crystal Microbalance(QCM) Sensor to Detect Methyl Salicylate in Black Tea Aroma.
- Supervisors** Mr. Prolay Sharma, Jadavpur University & Mr. Shantanu Mandal, The University of Burdwan

Additional Courses

- 2016 **A Level, Marks – 68%**, National Institute of Electronics and IT(NIELIT, formerly DOEACC), Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India.
New Delhi
- 2015 **Post Graduate Diploma in Rural Development(PGDRD), Marks – 68%**, Indira Gandhi National Open University (IGNOU).
New Delhi
- 2011 **O Level, Marks – 69%**, National Institute of Electronics and IT(NIELIT, formerly DOEACC), Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Government of India.
New Delhi

Scholarship

- 2012–2014 **TEQIP-II at Master of Engineering.**
- 2016–2016 **Senior Research Fellow (SRF)**, sponsored by ICAR, India.
- 2016–2018 **Junior Research Fellow(JRF)**, sponsored by Department of Science & Technology, India.
- 2018–2019 **Senior Research Fellow(SRF)**, sponsored by Department of Science & Technology, India.

R&D Projects

- 2016–2019 **Hyperspectral Image Feature Based Characterization of Coal and Coal Measure Rocks Occurring in BCCL and ECL Areas for Better Management of the Energy Demand of India**, *Sponsored by Department of Science & Technology (DST)*, at Department of Mining Engineering, IIT Kharagpur, India.
- 2016–2016 **Development of Cloud Network Drone (UAV) Assisted Sprayer (DUS)**, *Sponsored by Division of Agricultural Engineering (IARI & ICAR, India)*, at Department of Computer Science and Engineering, IIT Kharagpur, India.

Academic Projects

- 2014–2015 **Sef Help Bank - Internet Banking**, *using J2EE and Oracle 12c*, at A Level, Government College of Engineering & Textile Technology, Berhampore, WB.
- 2014 **Contamination of Arsenic in Drinking Water in Murshidabad District- Berhampore Block**, *Project Report*, IGNOU, New Delhi.
- 2013–2014 **Development of Quartz Crystal Microbalance(QCM) Sensor to Detect Methyl Salicylate in Black Tea Aroma**, *Research Project*, at Master of Engineering, Jadavpur University, Kolkata.
- 2011–2012 **AC & DC Fan Control wirelessly using remote by interfacing Atmel micro-controller between Remote Control & Fan**, *at Bachelor of Engineering*, The University of Burdwan, Burdwan, India.
- 2011 **Stationary Management System**, *using Visual Basic 6.0*, at O Level, The British Institutes, Kolkata.

Experience

- Sept, 2018 – March, 2019 **Senior Research Fellow**, DEPARTMENT OF MINING ENGINEERING, IIT KHARAGPUR, WB, India.
- Sept, 2016 – Sept, 2018 **Junior Research Fellow**, DEPARTMENT OF MINING ENGINEERING, IIT KHARAGPUR, WB, India.
- March, 2016 – July, 2016 **Senior Research Fellow**, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, IIT KHARAGPUR, WB, India.
- August, 2014–March, 2016 **Electronics Faculty**, THE GEORGE TELEGRAPH TRAINING INSTITUTE, Berhampore, West Bengal.
Specialist for Classes:
 - Electronic Appliances Engineering
 - Mobile Telephone Repairing and Technician
 - Computer Hardware Engineering
- 2013–2014 **Project Trainee**, *at Master of Engineering*, Jadavpur University, Kolkata.
- 2012–2013 **Teaching Assistantship**, *at Master of Engineering*, University Institute of Technology, Burdwan University, Burdwan, WB.

Workshop

- 2016 (5 days) **Imaging Spectroscopy and Applications**, SPONSORED BY DEPARTMENT OF SCIENCE & TECHNOLOGY. New Delhi, India

Related Skills

- Hardware: PIC & 8051 Micro-controller & Arduino
- Design Tool : Function generator, Oscilloscope, Digital Multimeter, PLC and DCS
- OS : MSDOS, Microsoft Windows, LINUX
- Design: MATLAB, National Instrument, Cadence OrCAD and Eagle
- Language: Assembly Language (8085, 8086, 8051, PIC), HTML, C, C++, VB .Net, J2EE, Python
- General: MS Office, Libre Office, \LaTeX
- DBMS: Oracle 12c
- Software: ArcGIS/QGIS, ENVI, AutoCAD Map3D
- Instrument: Total Station, GPS

Subject of Interests

- Sensor Forensic
- Embedded System
- Artificial Intelligence (ML/DL)
- Circuit Theory
- Operating System
- Image Processing

Research Interests

- Spectroscopy
- Optical Imaging
- Inverse Problem
- Remote Sensing
- Microwave Imaging
- Information Retrieval

Hobbies

- Code Debugging
- Watching Movies
- Electronic Projects
- Making Friends

Languages

English Professional
Hindi Rastriya Bhasa
Bengali Mothertongue

Conversationally fluent
Expert for communication

Personal Information

Father Name GANGA RAM MISHRA
Date of Birth 18th January, 1990
Place of Birth Berhampore, WB
Status Single Male
Nationality Indian

Declaration

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

Place: Kharagpur

Date: August 17, 2019

Joynath Mishra