

Pramit Biswas

pramitbiswas@live.com | +91 73014 71017 | Kolkata, India

OBJECTIVE

I am looking for a promising position to become an asset to the organization that offers both challenges and a good opportunity for continuous growth.

EDUCATION

Indian Institute of Technology Patna | Currently Pursuing
PhD in Electrical Engineering

Visiting scholar at Indian Institute of Technology Kharagpur

Research Area: Energy-efficient elastic optical network

University College of Science, Technology & Agriculture | **University of Calcutta** | 2014

M.Tech. in Electrical Engineering | CGPA: 8.4 (out of 10)

Research Topic: Stochastic optimization-based parameter estimation and design of PID controller for Twin Rotor MIMO System

Kalyani Government Engineering College | **West Bengal University of Technology** | 2012

B.Tech. in Electrical Engineering | DGPA: 8.06 (out of 10)

Project Topic: Processor-based temperature controller

Ballygunge Government High School | 2008

WBCHSE | 70%

Ballygunge Government High School | 2006

WBBSE | 80%

PUBLICATIONS

▣ Journal

- ▣ Pramit Biswas, and Aneek Adhya, “Energy-Efficient Network Planning and Traffic Provisioning in IP-over-Elastic Optical Networks”, *Optik - International Journal for Light and Electron Optics*, 185 (2019), pp.1115-1133. [Impact Factor (2019): 2.187]
- ▣ Md Shahbaz Akhtar, Pramit Biswas, and Aneek Adhya, “An ILP-Based CapEx and OpEx Efficient Multi-Stage TDM/TWDM PON Design Methodology”, *Optical Fiber Technology*, 46 (2018), pp.205-214. [Impact Factor (2018): 1.898]
- ▣ Pramit Biswas, and Aneek Adhya, “Energy-Efficient, EDFA Lifetime-Aware Network Planning along with Virtualized Elastic Regenerator Placement for IP-over-EON”, submitted.
- ▣ Pramit Biswas, Satyajit Das, Debashree Guha and Aneek Adhya, “Wavelength-routed Optical Backbone Network Planning Under Fuzzy Environment”, submitted.

▣ Conference

- ▣ Pramit Biswas, Aneek Adhya, Shabaz Akhtar, Jitendra Gupta, and Sudhan Majhi, “EDFA Active-sleep Transition Frequency and EDFA Occupancy Aware Dynamic Traffic Provisioning for Energy-efficient IP-over-EON,” *IEEE International Conferences on Signal Processing and Communication Systems (ICSPCS)*, Dec. 2019, pp. 1–7, *Gold Coast, Australia*.
- ▣ Pramit Biswas, Suman Kr Dey, and Aneek Adhya, “Auxiliary graph-based energy-efficient dynamic connection grooming for elastic optical networks,” *IEEE Advanced Networks and Telecommunications Systems (ANTS)*, Nov. 2016, pp. 1–3, *IISC Bangalore, India*.

- Pramit Biswas, Roshni Maiti, Anirban Kolay, Kaushik Das Sharma, Gautam Sarkar, “PSO Based PID Controller Design for Twin Rotor MIMO System”, IEEE Conference on Control, Instrumentation, Energy and Communication (CIEC), 2014, pp. 56-60, *Kolkata, India*.
- Pramit Biswas, Anirban Kolay, Roshni Maiti and Kaushik Das Sharma, “A Novel Path Planning Algorithm for Single Camera-Based Mobile Robot Navigation”, Proceedings of Michael Faraday IET India Summit (MFIIS), Nov. 2013, CS-8, pp. 4.40, *Kolkata, India*.

CERTIFICATION

Data Science for Business - Level 1, 2 | online | 2020
Organization: *cognitiveclass.ai, IBM*

Data Science Foundations – Level 1, 2 | online | 2020
Organization: *cognitiveclass.ai, IBM*

KPMG Lean Six Sigma Green Belt | 2016
Organization: *Henry Harvin Education*

Functioning and Technical details of Transmission & Distribution System of Electric Power and details of different S/Station (up to 220 kV) Equipment | 2012
Organization: *West Bengal State Electricity Transmission Company Limited*

Operation & Maintenance Work under Line & Sub-Station up to 33KV | 2011
Organization: *West Bengal State Electricity Distribution Company Limited*

PLC and SCADA | 2011
Organization: *Prolific System and Technologies PVT. Ltd. and Kalyani Government Engineering College*

Embedded System | 2011
Organization: *Moniba Compu Academy PVT. Ltd. with IBM*

SCHOLARSHIPS

- MHRD GATE
- Visvesvaraya (25% more fellowship amount than most of the other PhD Schemes)

PARTICIPATION

Organized and participated in several seminars, workshops, technical and non-technical events. Volunteered as **Chair** at **IIT Patna IEEE Student Branch**.

PROGRAMMING SKILLS

MatLab (daily driver in M.Tech and PhD for research), **Simulink** (used for hobby projects and M.Tech research), **Python** (started using for reinforcement learning in Ph.D., occasionally use for website scraping and personal finance), **Latex** (use for medium to large document preparation), **C**, **C++** and **Assembly** (used in embedded projects), **HTML**, **CSS** and **JS** (used for hobby projects and www.iitp.ac.in/ieeesb website)

OTHER SKILLS / INTERESTS

Optimization heuristics and programming formulation | Real-Time Digital Simulator (RTDS) | RSLogix 500 and Wonderware In-Touch 9.5 (PLC and SCADA) | Energy Audit | Network automation: SDN, YANG, NETCONF, RESTCONF | high-performance computer hardware and networking | micro-services | git | system automation | machine learning | quantum optimization.

LEISURE ACTIVITIES

Interested in the latest science and technology advancements | financial market | Reading books | Sports: table tennis, cricket, football, swimming.