DEEPAYAN BHADRA

d_bhadra@iitb.ac.in

FD-379/3, SECTOR – III, SALT LAKE CITY, KOLKATA - 700106

+91-916-7474-391

Education Summary

- **Indian Institute of Technology Bombay** — Mumbai, India
  M.Tech in Aerospace Engineering (Control and Dynamics) — *May, 2014*
  -Courses: Introduction to Flight State Space Methods, Applied Mechatronics, Control System Design Techniques, Aircraft Flight Dynamics, Advanced Process Control, Space Flight Dynamics, Multivariable Control Systems, System Theory

- **National Institute of Technology** — Tiruchirappalli, India
  B.Tech in Instrumentation and Control Engineering — *May, 2012*
  Courses: Control Systems, Modern Control Theory, Process Control, Logic and Distributed Control Systems, Analog and Digital Systems, Microprocessors and Microcontrollers

Academic Experience

- **Indian Institute of Technology Bombay** — Mumbai, India
  Graduate Teaching Assistant — *May 2012-Present*
  -Courses: Aerospace Measurement Lab., Modeling and Simulation Lab.

- **Variable Energy Cyclotron Center** — Kolkata, India
  Research Intern (Advisor: Dr. Ranadhir Dey) — *May-July, 2011*
  - Successfully designed a Helium Liquefier Pressure Control System for the Cryogenic Plant for Superconducting Cyclotron at Variable Energy Cyclotron Center using MATLAB SIMULINK

- **Indian Institute of Science Education and Research** — Kolkata, India
  Research Intern (Advisor: Dr. Prasanta Panigrahi) — *Dec-Jun 2011*
  - Analyzed the rainfall, temperature and tree-ring width data of Perth in Australia using MATLAB for possible correlations using the time-frequency localization and multi-scale resolution property of Wavelet Transform.

- **Indian Institute of Technology Kharagpur** — Kharagpur, India
  Research Intern (Advisor: Dr. S.K Ray) — *June 2010-July 2010*
  - Experimental work on the synthesis of thin film CIGS solar cell using sputtering and chemical deposition and further characterization using Field Emission Scanning Electron Microscopy (FESEM).

Skills

Technical Skills: Control Systems, Wavelet Transform, System Modeling
Packages: COMSOL Multiphysics, Matlab, NI Labview, MS Office
Languages: C/C++, JAVA
Operating Systems: Windows, Linux

Publications

D. Bhadra and Y. Ghosh, Research paper on Wavelet Transform at IEEE National Conference held in Calcutta, November 2011 (published as part of conference proceedings). The same work to be incorporated as a chapter in a book to be published by CRC Press UK.

U. Banerjee and D**. Bhadra**, Bachelor's thesis project on 'New Approaches in Modeling Railway Crack Quantification System' published by Lambert Academic Publishing. (**ISBN-13:** 978-3659279195)

Professional Affiliation

Student Member of the Instrument Society of India (ISoI)

Academic Achievements

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- Ranked in top 0.85% among 1100000 students in All India Engineering Entrance Examination in 2008.
- Secured an All India Rank of 48 (among the top 0.25% in the country) in Graduate Aptitude Test in Engineering (GATE) 2011.

Co-Curricular Activities

- Coordinator of the Infotainment Team at Pragyan 2010, the international technical festival of NIT Tiruchirappalli.
- Head of Workshops for SENSORS 2012, the national level technical symposium of the Department of Instrumentation and Control Engineering at NIT Trichy.

Literary Activities:

- Article published in 'The Hindu' and 'The Telegraph'
- Active columnist for 'Feeds', the insti magazine of NITT
- Worked for 'Pixie Dust Writing Studios', a writing agency.
- Won the Hostel English writing Competition
- Blogger for Bombay76, the IITB alumni shop.
- Jury member of the Essay Writing Contest at PG Cult 13.
- Editorial member of the PG Newsletter
- Article published in 'Indian Ruminations', a monthly literary journal specially dedicated for Indian English literature
- Article published in Seven Ages, the IITB Hostel-7 magazine
- Have interned as a Campus Ambassador for 'Campus Writing'for 6 months.