CURRICULUM VITAE

Ranjit Das

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Educational Qualification

- **2016 –** Ph.D.(Tech) in Photonics from University of Calcutta (Dept. of Applied Optics & Photonics).
- **2009 –** M.Sc. in Electronic Science from University of Calcutta with 1st class.
- **2007 –** B.Sc.(H) in Physics from Raja Peary Mohan College affiliated under University of Calcutta with 1st class.
- **2003 –** Higher Secondary from Nabagram Vidyapith (W.B.C.H.S.E.) with 1st Div.
- **2001 –** Secondary from Nabagram Vidyapith (W.B.B.S.E.) with 1st Div.

Academic Achievements

- **2015 –** Recipient of Erasmus Mundas (LEADERS) postdoctoral project at City University London, U.K.
- **2014 –** NET-JRF (Dec, 2014) in Electronic Science.
- **2012 –** NET-LS (Dec, 2012) in Electronic Science.
- **2012 –** NET-LS (June, 2012) in Electronic Science.
- **2011 –** GATE in Electronics and Communication Engineering.
- **2009 –** GATE in Electronics and Communication Engineering.
- **2008 –** Recipient of Anil Nath Dey and Anath Nath Dey scholarship (2008), University of Calcutta.

Fields of Interest:

Optics & Photonics, Electricity & Magnetism, Electromagnetic Theory, Mathematical Methods, Circuit & Network theory, Semiconductor Device Physics, Analog & Digital Electronics and Microprocessor.

Present Status:

Assistant Professor in the Dept. of Electronics, Ramkrishna Mission Vidyamandira, Belur Math, Howrah – 711202

Teaching Experience:

- Worked as a *Guest Lecturer* in the Department of *Applied Optics and Photonics* of *University of Calcutta* (2013-2015); took courses on Photolithography, Thin-film deposition & characterization, Circuits & Networks, EM theory, Microprocessor and Microcontroller.

- Served as *Visiting Faculty* in the Department of *Engineering Physics* of *Techno India College, Saltlake* (2014); took courses on Optics, Electrostatics, Electromagnetism and EM theory.

- Served as *Visiting Faculty* in the Department of *Computer Science* of *Gurudas College, Fulbagan* (2014); took courses on Circuits & Networks, Analog & Digital Circuits and Microprocessor.

Research Experience:

- Worked as a *Ph.D. (Tech.)* scholar in the field of "*Integrated Optics & Photonics*" under the supervision of *Prof. Rajib Chakraborty* of the Dept. of *Applied Optics and Photonics* of *University of Calcutta*. Thesis title: **Studies on Different Properties of Lithium Niobate for Photonic Device Applications**.

- Worked as an *S.R.F.* in a *DST, GOI* sponsored project titled **"Study of acousto-optic memory in periodically poled lithium niobate"** under the supervision of *Dr. Rajib Chakraborty* of the Dept. of *Applied Optics and Photonic, C.U.* (2011-2014).

- Worked as a *J.R.F.* in a project named **"Diamond like nanocomposites as protective coating for optical components"** in the *Centre for Research in Nanoscience and Nanotechnology (CRNN), C.U.*, under the supervision of *Dr. Rajib Chakraborty* of the Dept. of *Applied Optics and Photonic, C.U.* (2009-2011).

- Worked on a project named "**Development of conventional and strained-Si n-MOSFET process for comparative study of device performance**" for the partial fulfillment of the *post-graduate degree (M.Sc.)* under the guidance of *Dr. Sanatan Chattopadhyay* of the Department of *Electronic Science, University of Calcutta* (2008-2009).

Projects undertaken:

- Erasmus Mundas (LEADERS) postdoctoral project at City University London, U.K. (2015-2016)
- Completed TEQIP(II) student project with REF No. TEQIP-II/R&D/13/109(4) dated 18th November, 2013, with total fund of Rs 50,000.00.

Professional membership:

- Fellow member of **Optical Society of India** (Expiry: Nov, 2017)
- Ex-student member of **SPIE (America)**

Publications:

A. Journal Papers:

1. Analysis of Electric Field for Inclined Electrodes and Use of Such Configuration for Generating Tunable Differential Polarization Phase; *The European Physical Journal - Applied Physics*; vol. 72, pp. 30501(1-9); 1st Dec, 2015; Ranjit Das, Souvik Ghosh and Rajib Chakraborty.

2. Tunable Differential Polarization Phase Shifter Using Electro-optic Property of Trapezoidal Lithium Niobate Crystal; *Proc. of SPIE*; vol. 9654, pp. 96541M(1-4); 15th June, 2015; Ranjit Das, Souvik Ghosh and Rajib Chakraborty.

3. Dependence of Effective Internal Field of Congruent Lithium Niobate on its Domain Configuration and Stability; *Journal of Applied Physics*; vol. 115, no. 24, pp. 243101(1-5); 13th June, 2014; Ranjit Das, Souvik Ghosh and Rajib Chakraborty.

4. Interferometric Measurement of Internal Field of Lithium Niobate without High Voltage Electric Field Poling; *Optical Engineering*; vol. 53, no. 5, pp. 054105(1-6); 24th April, 2014; Ranjit Das and Rajib Chakraborty.

5. Enhanced Electro-optic Property in $LiNbO_3$ by Electric Field Domain Inversion; *IEEE - Photonic Technology Letter*; vol. 25, no. 16, pp. 1626; 15th August, 2013; Ranjit Das and Rajib Chakraborty.

6. Studies on the Influence of Argon Flow Rate on PECVD Grown Diamond-Like Nanocomposite Film; *Optik*; vol. 124, no. 24, pp. 6915; December, 2013; Rajib Chakraborty, Rahul Mondal and Ranjit Das.

B. Conference Papers:

1. Characterization of Supercontinuum in Dispersion Engineered Silicon Nanowire; (Communicated) *Photonics 2016* (December, 2016); R. Das, M.R. Karim, and B.M.A. Rahman.

2. Effect of Input Pulse Profile and Guiding Media Features on Supercontinuum Generation in Silicon Nanowire; (Accepted) *40th OSI Symposium* (November, 2016); Ranjit Das, Rajib Chakraborty and B.M.A. Rahman.

3. Tunable Differential Polarization Phase Shifter Using Electro-optic Property of Trapezoidal Lithium Niobate Crystal; *39th OSI Symposium* (February, 2015); Ranjit Das, Souvik Ghosh and Rajib Chakraborty.

4. Comparative Study of Internal Fields in Single Domain, Domain Inverted and Temporary Domain Inverted $LiNbO_3$; *38th OSI Symposium* (March, 2014); Ranjit Das, Souvik Ghosh and Rajib Chakraborty.

5. Controlling Phase Difference between Orthogonally Polarized Light Beams Passing Through a Specially Cut $LiNbO_3$ Crystal; *38th OSI Symposium* (March, 2014); Souvik Ghosh, Ranjit Das and Rajib Chakraborty.

6. Interferometric Measurement of Internal Field Strength of Unpoled Lithium Niobate; *37th OSI Symposium* (January, 2013); Ranjit Das, Sounak Bhattacharya and Rajib Chakraborty.

7. Modified Fabry-Perot Interferometric Technique for Accurate Alignment in the Study of Electro-optic Modulation in $LiNbO_3$; *Proceedings of International Conference on Trends in Optics and Photonics* (December, 2011); Ranjit Das, Ajoy Ghosh and Rajib Chakraborty.

8. A Simple Optical Technique to Measure Surface Quality of Nano Films; *35th OSI Symposium* (January, 2011); Rahul Mondal, Ranjit Das and Rajib Chakraborty.

9. Fabrication and Characterization of Different Types of Stain Etched Porous Silicon; *35th OSI Symposium* (January, 2011); Reshmi Das, Ranjit Das and Rajib Chakraborty.

Last Updated on: 2nd *December*, 2016

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