

# Raj Gaurav Mishra

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Seeking research assignments in engineering with a high growth oriented organisation of repute.

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## Synopsis

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- ⇒ Working as a full-time Faculty Member at the Department of Electronics & Communication Engineering, Faculty of Science & Technology, The ICFAI University, Dehradun, UK, India.
- ⇒ Master of Science (MS) in Space Engineering from Umeå University, Department of Space Sciences-Kiruna, Sweden. (September 2005 - March 2007).
- ⇒ Worked with Info VII - Robotics and Telematics, Julius Maximilians University of Wuerzburg Germany, on Master Thesis Project Development of the JMUW Ground Station.
- ⇒ B.E. (Electronics & Instrumentation) from Institute of Technology & Management - Gwalior (Affiliated to RGPV-Bhopal) in 2004.
- ⇒ Total experience of about 8 years in academics, research and industry.
- ⇒ Successfully handled a number of projects in Software, Electronics and Robotics.
- ⇒ Excellent communication, interpersonal & analytical skills with the ability to grasp new concepts & utilise the same in a productive manner.

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## Academic Credentials

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- ⇒ *Master of Science in Space Engineering* (45 Credits). (Thesis Spcl. *Mechatronics*).
- ⇒ *B.E. (Electronics & Instrumentation)* with 74.25% from ITM Gwalior (RGPV-Bhopal) in 2004.
- ⇒ *XII* with 65.11% from MP Board of Secondary Education in 2000.
- ⇒ *X* with 65% from Central Board of Secondary Education in 1998.

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## Academic/Research/Industrial Experience

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- ⇒ August 2013 - till date - working as a full-time faculty member (Asst. Prof.) at the Department of Electronics & Communication Engineering, Faculty of Science & Technology, The ICFAI University, Dehradun, UK, India.
- ⇒ From December 2010 to June 2013 - worked as a full-time Researcher at Division of Microelectronics, Indian Institute of Information Technology - Allahabad, UP, India.
- ⇒ April 2009 to December 2010 - worked as a full-time faculty member (Asst. Prof.) at the Faculty of Science & Technology, The ICFAI University, Dehradun, UK, India.
- ⇒ August 2008 - March 2009 - worked as a full-time faculty member (Lecturer) at NRI-Institute of Technology & Management, Gwalior, India.
- ⇒ July 2007 - July 2008 - worked as a Software Engineer at Patni Computer Systems Ltd. Mumbai, MH, India.
- ⇒ August 2004 - August 2005 - worked as a Software Engineer Trainee at Satyam Computer Services Ltd. Hyderabad, AP, India.

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### Awards / Fellowships / Professional Memberships

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- ⇒ Received **Indo-Swiss Joint Research Program (ISJRP) Fellowship** to visit EPFL-Lausanne, Switzerland, as a **Guest Researcher** from November 2011 to February 2012.
- ⇒ **Senior Research Fellowship** by Govt. of India for full-time research at **Indian Institute of Information Technology - Allahabad, UP, India.**
- ⇒ **IEEE Student Member** during years 2010-2013.
- ⇒ **Optical Society of America, Student Member** during years 2011-2013.
- ⇒ Nominated as a **Secretary, Chandigarh Student Chapter of Optical Society of America** on 01-July-2013.

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### Research Projects Completed/Ongoing

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**Project Title:** Identification and Localization of Events using Extended Sensors

Duration: 3 Years

Scope: Sponsored Research Project

Employer: **Division of Microelectronics, Indian Institute of Information Technology - Allahabad, UP, India.**

**Project Title:** Development of a JMUW Satellite Ground Station

Duration: 6 months(Completed)

Scope: Master Thesis Project.

Employer: **Info VII - Robotics and Telematics, Julius Maximilians University of Wuerzburg-Germany.**

**Project Title:** ADIA - Altitude Determination by Image Analysis

Duration: 4 months(Completed)

Scope: Master Student's Project.

Employer: **Department of Space Sciences - Kiruna and Swedish Space Corporation - Kiruna.**

**Project Title:** SSETI ESEO - European Student Earth Orbiter

Duration: 4 months(Completed)

Scope: Master Student's Project.

Employer: **Department of Space Sciences - Kiruna and European Space Agency - Netherlands.**

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### Research Publications

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- ⇒ [Int. Journal Paper] *Raj Gaurav Mishra, Amit Kumar Shrivastava, Implementation of Custom Precision Floating Point Arithmetic on FPGAs, HCTL Open International Journal of Technology Innovations and Research, Volume 1, January 2013, Pages 10-26, ISSN: 2321-1814, ISBN: 978-1-62776-012-6.*
- ⇒ [Int. Journal Paper] *Raj Gaurav Mishra, Distributed Fibre Optic Virtual Fencing System, Edition on Wired and Wireless Networks: Advances and Applications, Volume 3 - November 2013 of HCTL Open Science and Technology Letters (STL), ISSN: 2321-6980, ISBN: 978-1-62951-015-6.*
- ⇒ [Int. Journal Paper] *Chirag, Raj Gaurav Mishra, Robotics: Survey of its Various Possible Applications, International Journal of Scientific & Engineering Research, Volume 4, Issue 11, Page 44-52, ISSN: 2229-5518, November 2013.*
- ⇒ [BOOK] *Raj Gaurav Mishra, Development of a Ground Station (GS) Package Suited for Spacecraft Operation Control and Optimization for Satellite Flyby over the Ground Station, Master Thesis, HCTL Open Thesis and Dissertation Repository, ISBN (PDF version): 978-1-62951-608-0, June 2014.*

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### Areas of Interest

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- Electrical Engineering
- Space Engineering
- Embedded System Design & Development
- FPGA based real-time system development
- Digital Signal Processing
- Image processing
- Robotics and Mechatronics
- Analog & Digital Electronics
- Microprocessors and Microcontrollers
- Digital System Design

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### Personal Details

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Father's Name : Mr. Pushp Raj Mishra  
Permanent Address: B-144, Palace Orchard, Phase IV, Kolar Road, Bhopal - 462042, MP India  
Current Address : H. No.: 646, Lane No. 13, Vijay Park Extension, GMS Road, Dehradun -  
468001 (U.K.), India.  
Marital Status : Married  
Date of Birth : 08<sup>th</sup> April, 1983

**Raj Gaurav Mishra**

*04<sup>th</sup> February 2015*