Hrishikesh kumar

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Education

- **Indian Institute of Technology, Patna**
  Bachelor of Technology, Department of Electrical Engineering
  CPI: 8.4/10
- **Shri Sanatan Dharam Saraswati Bal Mandir Senior Secondary School, New Delhi**
  Class XII, Central Board of Secondary Education
  Performance: 83.6%
- **Ramakrishna Mission Vidyapith, Deoghar, Jharkhand**
  Class X, Central Board of Secondary Education
  Performance: 91%

Internship and Projects

- **Vocational training at National Thermal Power Corporation Limited (NTPC), Barh**   **Summer Internship '14**
  Process for generating Electricity, **Company: NTPC, Barh**
    - Undergone vocational training regarding generating and transmitting electricity
    - Familiarized with the cause of power loss and the ways to dwindle it
- **Project title: Live colour detection using MATLAB**   **January'15-May'15**
  IIT PATNA, Guide: Dr. Maheshkumar H. Kolekar, Asst. Professor, IIT Patna
    - Developing a code to detect three primary colours in the running video using MATLAB
- **Project title: Low cost 6-bit Digital to Analog converter and voltage regulation**   **January'15-May'15**
  IIT PATNA, Guide: Dr. Yatendra Kumar Singh, Asst. Professor, IIT Patna
    - Designing 6-bit Digital to Analog converter and applied voltage regulation to the output
- **Project title: Energy forecasting using parametric estimation and machine learning**   **Summer Internship'15**
  Robert BOSCH Engineering and Business Solutions Limited (RBEI), Bangalore, India
  Guide: Dr. Kumar Padmanabh, Head researcher, RBEI
    - Applied Regression techniques on the historical data from the household of the United States
    - Applied neural network, SVM regression on the same data
    - Compared the result to get the knowledge of the best methods

Technical Proficiency

- **Programming languages**: C, Java, Verilog, Matlab, R
- **Software packages**: Mitsubishi Programmable logic controller (PLC)
- **Microprocessor**: Intel 8085
- **Microcontroller**: PIC18F4550

Relevant courses and labs undertaken

- **Courses**: Semiconductor devices and circuits, Digital circuits and microprocessors, Signal, system and network, Analog integrated circuits, Principles of communication, Introduction to VLSI design, Digital signal processing, Control systems, Electronic Instrumentation, Advanced control system, Embedded systems, Electromagnetic theory, Power system operation and control, Power electronics, Wireless communication Integrated Circuits, Communication networks
- **Laboratories**: Digital circuits lab, Analog circuits lab, Verilog lab, Communication lab, Instrumentation and control lab, Embedded systems lab, Digital signal processing lab

Awards and Achievements

- Secured 2nd place in Electro quiz, event in Celesta 2013(Tech fest of IIT Patna)
- Secured National **Top 1% in NATIONAL STANDARD EXAMINATION IN ASTRONOMY(JUNIOR)**
- Awarded **Certificate of Merit in ALL INDIA TALENT SEARCH EXAMINATION**
- **Passed the 48th Annual All India UN Information Test**
- Secured 4th place in INTACH INDIA HERITAGE QUIZ (Patna round) 2014 aired on DD BHARTI
- Received Certificate of Honour for the best project of wildlife department in school exhibition-2007