Kalpesh Kumar

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Education

- **Indian Institute of Technology, Patna**
  Bachelor of Technology, Department of Electrical Engineering
  CPI: 5.5/10 (after 6 semesters)
- **Emmanuel Mission Senior Secondary School, Pali, Rajasthan**
  Class XII, Central Board of Secondary Education
  Performance: 61.00 %
- **Jawahar Navodaya Vidyalaya, Jojawar, Pali, Rajasthan**
  Class X, Central Board of Secondary
  Education Performance: 73.40 %

Project

- **Project title: Live colour detection using MATLAB**   Aug'14 - Oct'14
  Guide: Dr. Maheshkumar H. Kolekar, Asst. Professor, IIT Patna
    - Familiarized with the image and video processing using MATLAB
    - Developing a code to detect three primary colours in the running video using MATLAB
- **Project title: Automatic Water pump controller**
  Guide: Dr. Sanjoy Kumar Parida, Asst. Professor, IIT Patna   Jan'15-Apr'15
    - Controlling the water level in the tank
    - Making the pump in "ON" or "OFF" state on a set timing

Technical Proficiency

- **Programming languages**: Verilog, Matlab, C
- **Software package:** Mitsubishi Programmable logic controller (PLC)
- **Microprocessor**: Intel 8085

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 system processing, Control systems, Electronic Instrumentation, Embedded systems, power systems, Electromagnetic theory, Power Electronics

- **Laboratories**: Digital circuits lab, Analog circuits lab, VLSI lab, Communication lab, Instrumentation and control lab, Embedded system lab, Digital signal processing lab

Extra-Curricular activities

- Regional level Handball player
- Represented IIT Patna basketball team at Inter IIT sports meet 2013 and 2014 in Basketball