**VIVEK JOSHI**

B.TECH **ELECTRICAL ENGINEERING**

U.G.(3ʳᴰ year 1ˢᵗ semester)

**Indian Institute of Technology Patna**

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| DOB:- | 27-08-1995 |

## EDUCATIONAL DETAILS

| Year | Level | Institute | CPI/% |
|---|---|---|---|
| 2013-2017 | B.tech Electrical Engg. | IIT Patna | 7.50 |
| 2012 | Rajasthan Board of Secondary Education | Noble Sr. Sec. School, Kuchaman City | 81.80 |
| 2010 | Rajasthan Board of Secondary Education | Noble Sr. Sec. School, Kuchaman City | 92.67 |

## ACADEMIC PROJECTS and TECHNICAL EXPERIENCE

➢ **Construction of a Digital Laser Wavemeter**  (ongoing)

*Guide*: Prof. Raghvan KE

- A wavemeter to be built which can measure laser wavelength within Doppler Broadened Linewidth(1 pm accuracy).
- PLL  to be used as a frequency synthesizer to multiply fringe frequency.
- DSP to be used for noise filtering and counting.
- After completion, the setup will be used in our college lab as routine lab equipment.

➢ **Working as a Project Manager of Sparkonics (Electronics club of IIT Patna)**

- I am studying the theory involved in the projects which are given to UG students under SPARKONICS so that I can help them in the best way I could.

➢ **Built an autonomous bot controlled by MATLAB(Image processing) for Techniche'14 (Tech-Fest) event.**

*Organiser*: IIT Guwahati.

- Made a bot(Using Arduino and Matlab) which was capable of sensing square coloured object and then placing them in their respective coloured region.
- Won 3ʳᵈ prize in that event.

➢ Made **Line follower, Aqua Soccer** Bots for demo in events as an organiser.

## TECHNICAL SKILLS

- **Programming languages**:  **C, C++, JAVA**.
- **Software**: **MATLAB** (Simulink, Image Processing), **OPENCV**, Adobe-Photoshop (Basic).
- **OS**: Windows, Linux, Mac OS X.
- **Micro-controller**: Arduino (UNO, Leonardo), Raspberry pi2.

## EXTRA-CURICULLAR ACTIVITIES

- ❖ Enrolled as an NSS (National Social Service) volunteer and did community work.

- ❖ Participated in Manthan* , our team qualified for finale. Prepared a presentation on the topic "Promoting Brain Gain and Research in India".
  *Manthan was the India's biggest youth movement to help set the agenda for 2014 general election.
- ❖ Worked as an one of the **leading Organiser** of tech-events in IIT-Patna's Tech-Fest **"Celesta"** and techno-cultural Extravaganza "**Anwesha**".

## FIELD OF INTERESTS

- ➢ Embedded Systems.
- ➢ VLSI.
- ➢ Robotics
- ➢ Control Systems.
- ➢ Signal and Image Processing.
- ➢ Computer Vision

## COURSES UNDERTAKEN

- ❖ Ongoing
  - Introduction to VLSI Design and Lab.
  - Electronic power systems.
  - Electronic Instrumentation.
  - Control Systems and Lab.
  - Digital Signal Processing.
  - Communication Lab.

- ❖ Finished
  - ✓ Semiconductor Devices.
  - ✓ Signal, System and Networks.
  - ✓ Principle of Communication.
  - ✓ Probability theory and Random processes.
  - ✓ Object Oriented Programming(Java)
  - ✓ Digital Circuits and Microprocessor.
  - ✓ Analog Integrated Circuits and Lab.
  - ✓ Electric Machines and Lab.
  - ✓ Introduction to C language

## STRENGTHS

- Quick Learner.
- Hard working.
- Team work, Leading Capacity.
- Passionate about work.
- Creative.

## PERSONAL INFORMATION

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|---|---|
| Father's Name: | Ram Gopal Joshi |
| Permanent Address: | Village-Lambiya, Teh.-Jaitaran District-Pali, State-Rajasthan India, PIN-306301 |
| DOB: | 27-08-1995 |

## DECLARATION

I hereby Declare that all the information provided above are true to best of my knowledge.

-Vivek Joshi