

**RUSTAM KUMAR**

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**SUMMARY OF EXPERIENCE:**

- ❖ Good knowledge of BLDC Motor Design.
- ❖ VLSI Understanding.
- ❖ Programming Skills.

**EDUCATION:**

- ❖ **2015:** Currently pursuing B.Tech(V<sup>th</sup> Sem) from IIT Patna with CPI 7.6/10.
- ❖ **2013:** Secured All India Rank 11094(General) in IIT-JEE among over 5 lakh students.
- ❖ **2013:** Class XII from BSBE with 68.3% aggregate.
- ❖ **2011:** Class X from BSBE with 79.6% aggregate.

**ACADEMIC PROJECTS****Mathematical Modeling of BLDC Motor**

Guide:Asst.Prof. Dr Ranjan Kumar Behera.

- ❖ Simulink Model of BLDC Motor

**Aerodynamics Modeling of Vehicle**

Guide:Asst.Prof.Dr Ranjan Kumar Behera.

- ❖ To Minimized the drag force on Vehicle ,Designed a Model Of 3 Wheel Vehicle using SolidWorks Software.

**Mathematical Modeling of 3 wheel Vehicle**

Guide:Asst.Prof.Dr Ranjan Kumar Behera.

- ❖ Modeled the 3 wheel Vehicle in state space equation.

**BLDC Motor Design**

Guide:Asst.Prof.Dr Ranjan Kumar Behera.

- ❖ Designed a High efficiency and Low cost BLDC Motor using Maxwell Software.

**Pattern Detector**

Guide:Asst.Prof.Dr.K.C Ray.

- ❖ Detect the pattern of Digital input Signal and generate output using Xilinx Spartan-3E(XC3S500E) Verilog language.

**Youtube Downloader**

- ❖ Created a Software which can download all video in playlist from Youtube Site.

#### COMPUTER SYSTEM EXPERTISE:

- ❖ Operating System                Windows, Unix, Android.
- ❖ Languages                        C, Java, Verilog, Python, Arduino.
- ❖ Soft ware                         AutoCAD, SolidWorks, ANSYS Maxwell, Matlab/Simulink, Xilinx, P-Spice.
- ❖ Hardware                         Arduino, Xilinx Spartan-3E(XC3S500E).

#### EXTRA CURRICULAR AND PROFESSIONAL ACTIVITIES:

- ❖ Coordinator of BHKV Club IITP.

#### ACHIEVEMENTS:

- ❖ Was awarded “**The Best Student of 2011**” by Adarsh High School.
- ❖ Got “Long Jump award” at District level.
- ❖ Gained MCM scholarship for one year at Collage.

#### PERSONAL DETAILS:

- ❖ Father's Name:                Mr, Ram Vinay Singh.
- ❖ Mother's Name:               Mrs. Bindu Devi.
- ❖ Date of Birth:                 03/08/1995.
- ❖ Permanent Address:       A706, Boys Hostel, IIT Patna, Bihar

#### REFERENCES:

- Dr Ranjan Kumar Behera, IITP Asst Professor.
- Dr KC Ray, IITP Asst Professor.

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