

# SUKHPREET SINGH VIRK

Third year | B.Tech | Electrical Engineering

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## INTERESTS

- gpu programming, shared memory parallel programming, hardware software interface
- embedded systems , verilog hdl
- renewable energy resources, control of power systems

## EDUCATION

- Bachelor of technology Indian Institute of technology, Patna  
**CGPA :8.49\*(out of 10)**
- Higher Secondary School Central Board of Secondary Education, New Delhi  
**Percentage : 90.8 %**
- Secondary School Central Board of Secondary Education, New Delhi  
**CGPA : 10(out of 10)**

## EXPERIENCE

- **Internship** (may-july 2015) **National Fertilizers Limited, Bathinda**  
explored the working of steam power plant and power transmission
- **Workshop** (04/2015) **IIT Patna**  
GPU computing using CUDA programming
- **PROJECT :Alternative Energy Digital Tablet** (8/2015) **RTDC IIT Patna**  
Alternative Energy Source Tablet for extensive low cost commercial use
- **PROJECT :Line Following Bot** (10/2014) **IIT Patna**  
Designed,optimized and implemented a line following bot without using microcontroller
- **PROJECT :Hydraulic Arm** (9/2013) **IIT Patna**  
Designed and created a fully working hydraulic arm with load upto 3kg

## TECHNICAL SKILLS

- **Programming languages** : C, Java , Python , Verilog HDL , Embedded C, PLC
- **Softwares** : Matlab, Mathematica ,
- **Other skills** : Arduino, Microprocessor 8085

## POSITIONS OF RESPONSIBILITY

- **Project Manager , RTDC IITP** 07/2015-present  
Elected as the Project Manager for the projects under RTDC
- **General Secretary, Ashoka Hall of residence IITP** 07/2013-07/2014  
Elected as the Chief Representative and General Secretary of Ashoka Hall of residence at IIT Patna