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Web
Youtube
https://goo.gl/HKeP1P

Interests
Embedded Systems, ComputerVision, FPGA Designing, Automation

Programming
C, C++, Java , Embedded C, Verilog HDL, Assembly , Matlab, Flex & Bison

Hardware Expertise
Microcontroller
Arduino,PIC18,Atmega
Processor Boards
Intel Galileo,RaspberryPi
Automation
PLC(AB,Siemens)
FPGAs Spartan3E

Software & OS
Matlab, **OpenCv**, **Xilinx SCADA**, **Linux**, **Mathematica**, **PSpice, Proteus**, **AUTOCAD**

Personal Skills
- Fluent in English
- Team Player
- DIY experience
- Innovative

Bhandari
EE Undergrad, Indian Institute Of Technology Patna

Technical Experience

05/15 - 07/15 **Research Internship** — IIT Kharagpur,West Bengal
Implemented programs using Flex and Bison to create compilers for developing a framework for verifying lifetime reliability guarantee of embedded application. The project was completed under the guidance of :- **Dr. Soumyajit Dey**

06/14 - 07/14 **Embedded System Training** — Kaizen Robeonics,Jaipur
Designed and implemented real-time applications based on micro controller 8051 and Atmega. Software simulation and PCB designing of electronic circuits.

06/14 - 07/14 **Automation Training** — Vision Automation Solutions,Jaipur
Extensive training in Automation Engineering and mini project using PLC(Allen Bradley,Siemens) and SCADA.

Education

2013 - Now **Bachelor of Technology, Electrical Engineering** — IIT Patna
maxSGPA:: 9.37 CGPA:: 8.73 Upto $4^{th}Sem$ Class Rank::4

2013 **Senior Secondary** 12^{th} **Class.** — DPS,Lucknow
PERCENTAGE:: 95.4% SCHOOL RANK:: 3

Positions Of Responsibility

2014-Now **Coordinator of Electrical Club , IIT Patna.**

2013-2015 **Event Organiser at Anwesha (Techno-Cultural Fest), IIT Patna.**

2013-Now **Captain of Table Tennis Team, IIT Patna**

Projects **Projects can be found at https://goo.gl/PSo7S9 .**

1- Sensory Substitution Vest (Atmel Design Contest 2015):: Completed and implemented the project which was based on sensory substitution and data interpretation onAtmel Borads.Project Motivation :- :- (TED talk :: https://goo.gl/L6hdgd)

2-Makey-Makey MIT MediaLabs Extension Prototype:: : Interfaced everyday conductors(like banana, apples etc.) with laptops/computers for providing a way for Human Machine inter-action on Atmega Micro-Controller.

3-Wireless Electricity Detector:: Used the concept of eddy currents and developed an electronic circuit for amplifying the eddy currents using transistors.

4-Automatic Green House:: *Implemented a Prototype version of a fully automated(used PLC) and user interactive(used SCADA) using SIEMENS and SCADA Software.*

5-Finger Detection Algorithm:: Implemented various versions for detecting fingers in a video feed. Used Camshift algo,BackProjection, Histograms and Convexity Defects with the help of OpenCV Libraries.