

Rakesh Podder

Curriculum Vitae

Room no: B215 Boys Hostel
IIT Patna, Bhita-801118
+91 9661204904
rakesh.ee13@iitp.ac.in
rakeshpodder3@gmail.com

Areas of Interest

- ✚ Communications and Signal processing.
- ✚ Biomedical Engineering.
- ✚ Analog Electronics.
- ✚ VLSI Design.

Education

2013 —Present	BTech. In Electrical Engineering INDIAN INSTITUTE OF TECHNOLOGY, PATNA cpi:7.25/10(upto 4th semester)
2012-2013	Kalyani University Experimental High School 10+2 level[Secured 90 Percent marks.
2010-2011	Bagula Purbapara High School(H.S) 10 level[Secured 90.1 Percent marks]

Research Experience

SUMMER 2014	ADVANCED TELECOMUNICATION Bharat Sanchar Nigam Limited (B.S.N.L) (A Government of India Enterprise), N.S.C.B.T.T.C Topics that I have learned during this Training: <ul style="list-style-type: none">❖ Signalling in Telecommunication.❖ Telecom Switching System Services❖ Optical Fiber Cable.❖ PCM Principle and Higher Order Multiplexing.❖ Mobile Communication.❖ Cellular Concepts,GSM Network Architecture.❖ CDMA Concept❖ Mobile Internet Access-GPRS,EDGE 3G.❖ Layered Architecture TCO IP IP Addressing.❖ Routing Protocols.❖ BroadBand Concepts Application, FTTH Applicatons. This is the major areas in which I was taught and done the Practical work in B.S.N.L .I also did the optical fiber cable splic using OFC fusion splicing and work on how to decrease the Intrinsic attenuation of an OFC.
-------------	--

NOVEMBER 2014
(Ongoing)

An Advanced Sensor Network For Health Monitoring

Indian Institute of Technology Patna, India.

Supervised by Dr. Sudhan Majhi(Asst. Professor IITP)

The goal of this project to design a system architecture for smart healthcare based on an advanced Sensor Network. It specifically targets assisted-living residents monitor the health condition continuously and by processing the data in MATLAB, notify about the problems in human body.

Relevant Course Work

Core	Signal Systems and Networks, Digital Circuits and Microprocessors, Analog Integrated Circuits, Principles of Communication, Digital Signal Processing, VLSI, Object Oriented Programming and Data Structure.
Maths	Probability & Random Processes, ODE & PDE, Linear Algebra, Complex Analysis, Numerical Methods.
Online	Wireless Communication Emerging Technologies in Coursera.

Technical Skills

PROGRAMMING	C,C++, Java, Verilog HDL, Arduino, R Language, Assembly Language for microprocessor intel 8085,Microsoft Excell. AVR Programming.
SOFTWARE	MATLAB, Mathematica, Xilinx ISE, Arduino,R Studio, Autocad,NetBeans IDE.

Scholastic Achievements

- ✚ JEE Advanced AIR:1014(Category Sc)
- ✚ District 1 st in West Bengal Board of Secondary Education.(10)
- ✚ District 2nd in West Bengal Council of Higher Secondary Education.(10+2)
- ✚ Dr. B R Ambedkar Award.
- ✚ Selected in "Top Class SC/ST Scholarship" provided by IITP on academic performance basis.

Extracurricular Activities

- ✚ Participated in "One Day workshop on Electronic System Design and Manufacturing,ESDM-2015".
- ✚ 4rd place in "Hydraulic Arm" competition in Celesta'13.
- ✚ 5th place in "Line Follower Robot" competition in Anwesha'14.
- ✚ Organised "Clix" an Eco Event as Event Organiser in Anwesha'15.
- ✚ Hobbies: Writing novels, poems and short stories.

Languages

- ❖ Proficient in English, Hindi and Bengali.