

VAIBHAV KRISHNA

SOPHOMORE AT
IIT KGP

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🌐 <https://vaibhav2010.github.io/my-website/>

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I am a second year undergraduate at IIT KGP looking for a Summer Research Internships. My research interest includes Semiconductor devices and nanotechnology.

Skills

PROGRAMMING LANGUAGES

Matlab

Python

C

Extra-curriculars

As an Active Member of The KGPian Game Theory Society organised many events to Promote Game Theory on Campus.

Runner-up in the National Science Day Quiz-2012 conducted by Kendriya Vidyalaya Sangathan.

Participated in Debate competitions and Quiz competitions actively.

Education

Indian Institute Of Technology Kharagpur
B.Tech Electronics and Electrical Communications Engineering
2020

CGPA- 9.73/10 Department Rank 3

Jawahar Vidya Mandir Shyamli,Ranchi
Class XII 2016

Board- CBSE, Percentage-93.6%

Surendranath Centenary School, Ranchi
Class X 2014

Board- CBSE, CGPA- 10/10

Projects

Implementation Of State Variable Approach in Network Analysis Oct 2017 to Current

Based on the concept of Normal Tree provided in "The State-Variable Approach to Network Analysis" By E S Kuh and R A Rohrer and using state space analysis made a circuit solver in Matlab for a Linear Time Invariant system. Plans include extending this to non- linear systems.

Relevant Courses

Completed

Programming and Data Structures, Electrical Technology, Mathematics (Differential, Integral and Vector Calculus, Linear Algebra, Matrix Algebra, Complex Analysis, Numerical Analysis), Introduction To Electronics, Semiconductor Devices, Network Theory.

Ongoing

Signals and Systems, Analog Electronic Circuits, Electromagnetic Engineering , Probability and Stochastic processes, Fundamentals of Electronic Materials.

Scholastic Achievements

- Among the Top 0.1 percentile (AIR 935) in the Indian Institute of Technology Joint Entrance Exam Advanced-2016.
- Awarded fellowship in the young scientist program (KVPY) conducted by IISc Bangalore.
- Qualified for Indian Chemistry Olympiad (InCHO) and Indian Physics Olympiad (InPHO). Was the State Topper of Jharkhand in National Standard Examination of Chemistry which was the qualifying round for InCHO.
- Received 0.1 percentile certificate in Physics from Central Board Of Secondary Education for exceptional performance in Physics paper in Board Examinations.