

R NARESH

UNDERGRADUATE STUDENT AT INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR

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RESEARCH INTERESTS

- Complex and Social Networks
- Algorithms
- Artificial Intelligence
- Software Design
- Autonomous Vehicles
- Machine Learning
- Cryptography

EDUCATION

- | | |
|-------------------------|---|
| 2013-2018
(EXPECTED) | B.Tech and M.Tech (Dual Degree) in COMPUTER SCIENCE AND ENGINEERING
Indian Institute of Technology , Kharagpur
CGPA: 7.02/10.0 |
| 2013 | Class XII, CENTRAL BOARD OF SECONDARY EDUCATION (CBSE)
Maharishi Vidya Mandir SSS , Chennai
SCORE: 95.6% |
| 2001 | Class X, CENTRAL BOARD OF SECONDARY EDUCATION (CBSE)
Kendriya Vidyalaya Picket , Hyderabad
GPA: 10.0/10.0 |

ACADEMIC PROJECTS

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|----------------------------|---|
| <i>Current</i>
FEB 2015 | Kraken 2.0 (AUTONOMOUS MOBILE ROBOT)
Group: Autonomous Ground Vehicle Research Group , IIT Kharagpur
Guide: Professor C. S. Kumar <ul style="list-style-type: none">- Developing a robust autonomous mobile robot to participate in the annual AUVSI ROBOSUB held in San Diego, California.- ROS (Robot operating system) has been adopted for software development and synchronization ROS works on a publisher-subscriber based architecture by means of passing messages. Built different packages on the ROS stack. |
| <i>Current</i>
FEB 2015 | Wikification via Link Co-occurrence
Guide: Professor Pawan Goyal <ul style="list-style-type: none">- Wikification stands for the process of linking terms in a plain text document to Wikipedia articles which represent the correct meanings of the terms, can be thought of as a generalized Word Sense Disambiguation problem. |

DEVELOPMENT PROJECTS

- FEB 2015** | **Advanced Graph Calculator**
- Contributed to the development of an advanced graph calculator that plots the graph of multi-variable systems on the screen.
 - The software was built on the PyQt framework using matplotlib and numpy. The PyQt framework was used for creating the GUI for the application. matplotlib was used for generating 2D/3D plots. numpy was used for explicitly generating domain for the functions to be plotted.
- DEC 2014** | **Lane Follower robot**
- Developed an autonomous lane following robot that uses advanced image processing techniques to detect the path in an IEEE certified workshop based on image processing organized by Technology Robotix Society, IIT Kharagpur
- DEC 2013** | **PIR Based Line Follower**
- Developed an autonomous line following robot using Atmel AVR microprocessor(Atmega16) in an IEEE certified workshop organized by Technology Robotix Society, IIT Kharagpur.

POSITIONS OF RESPONSIBILITY

- Current** | **Senior Editor, Technology Literature Society, IIT Kharagpur**
- Managing the content and design team of the society.
 - Writer in the English Team, and working as a senior editor for all English publications.
- Current** | **Secretary, CodeClub, IIT Kharagpur**
- Part of the managing team leading a group of 25 students.
 - Conducted several events, including Microsoft code.fun.do and BITWISE, the Annual Departmental Fest of the Department of Computer Science and Engineering, alongside several fortnightly competitive coding competitions within the campus.
 - Designed the software for updating the leaderboards in real-time during competitions as a part of BITWISE '15.
- Apr 2015** | **Team Member, Google Students Club, IIT Kharagpur**
- Organized multiple workshops and events, primarily focused on Android Development, in association with Google.
 - Conducted a workshop on the [Polymer Project](#), which received high levels of participation.
- Apr 2014** | **Co-ordinator, CodeClub, IIT Kharagpur**
- Part of the organizing and sponsorship team for BITWISE '14.

COMPUTER SKILLS

PROFICIENT | C, C++, Python, Robot Operating System (ROS), Java, MySQL

DABBLED | HTML, CSS, Linux / Ubuntu, Git

COURSEWORK

(T)HEORY AND (L)ABORATORY

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|---|------------------------------|
| - Programming and Data Structures (T/L) | - Algorithms-I (T/L) |
| - Discrete Structures | - Software Engineering (T/L) |
| - Formal Languages and Automata Theory | - Switching Circuits (T/L) |