

Indian Institute of Technology, Kanpur

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# **EDUCATIONAL QUALIFICATIONS**

Year	Degree	Institution(Board)	CGPA/%
July'17 – June'21 (expected)	B.Tech, ME & Minor in IME	Indian Institute of Technology, Kanpur	9.2/10.0
2017	ISC – XII	City Montessori School, Lucknow (CISCE)	95.5%
2015	ICSE – X	St. Francis' College, Lucknow (CISCE)	95%

# HONORS AND ACHIEVEMENTS\_

20	2019	2nd in 15+ teams, Student AUV Competition (SAVe),	Chennai
	2015	organised by <b>NIOT, Chennai</b> in 2019	CHEIIIIUI
	2017	<b>Top 0.7%</b> , JEE Advanced (amongst 160,000 candidates)	
	2017	<b>Top 0.001%</b> , JEE Main (amongst 1.3 million candidates)	
	2016	Top 1%, National Standard Examination in Physics	India
	2016	Top 1%, National Standard Examination in Chemistry	India

# WORK EXPERIENCE \_\_\_\_\_

**Intelligent Systems Lab** Robotics Intern

SUPERVISOR: MR. RAVI PRAKASH, DOCTORAL STUDENT

- Ported outdated available ROS code to operate on current development platform using ROS Kinetic on Ubuntu 14.04
- Actualized setup for simulation using Rviz and Gazebo for Universal Robots manipulator on a Guardian Robot
- Tweaked the hardware drivers and changed odometry publishers to fix position drift estimated by motor encoders
- · Assisted in final aim to create collaborative autonomous robots capable of building walls, extinguishing fires

### **New York Office, IIT Kanpur**

Backend Software Intern

May 2018 - July 2018

April 2019 - Present

SUPERVISOR: PROF. MANINDRA AGRAWAL

- Worked on Scala with Akka-HTTP for scalable and concurrent multi threading using functional programming
- Documented and compiled the entire collection of backend Application Programming Interfaces using **PostMan**
- Fixed bugs in the Scala backend, and collaborated using Phabricator, while developing an upcoming social platform

# SKILLS \_\_\_\_\_ RELEVANT COURSEWORK \_

Introduction to Programming (A\*) Probability & Statistics Introduction to Mechanical Design (A\*) Introduction to Microeconomics (A) Data Structures and Algorithm (i) A\*: Grade for exceptional performance, i: In progress, A: grade

Introduction to Robotics (i)

Developed and tested acoustic localization system capable of estimating the Direction of Arrival of ultrasonic underwater signals from pinger, using **STFT** and **Cross-Correlation** 

### Realtime Chlobard Defiae CROB DIMANIPING IN AVIS imulate vehicle model in a hydrodynamically realistic environment

MENTOR: PROF. MANGAL KOTHARI

May 2019 - Present

- Studied and experimented various techniques related to 3D mapping of environment using monocular and stereo cameras on Jetson TX2 for onboard implementation
- Evaluated approaches for shortcomings and processing requirements while focussing on the scarce size, computation and energy resources on Unmanned Aerial Vehicles (UAVs)

Chat-IITK Advanced Track Project - ESC101

MENTOR: PROF. PUROSHOTTAM KAR

2nd Semester

- Designed and developed a chat application on NodeJS, Express, and MongoDB, selected in 12 out of 400+ students
- Implemented real-time chat using Socket-IO with PassportJS for extensively implemented **authentication** and **cookie handling** for session management
- · Database management implemented using MongoDB, and application deployed online on Heroku's server

# POSITIONS OF RESPONSIBILITY

**Team AUV-IITK** 

Science and Technology Council

April 2019 - Present

- SOFTWARE TEAM LEAD

  Spearheading a group of 8 people working on the software of Anahita, planning and implementing technical changes
- Maintaining software stack of Autonomous Vehicle, deployed on Git, developed using ROS, OpenCV and Gazebo
  - Secretary, Robotics Club, IIT Kanpur 2018-19
  - Secretary, Consulting Hobby Group, IIT Kanpur 2018-19
  - Student Guide, Counselling Service, 2018-19
  - Academic Mentor, Counselling Service, 2018-19

### MISCELLANEOUS\_

- Runners Up in robotic soccer event Wild Soccer, and Visualise, in inter-hall competition
- Developed an application which generated summaries of the latest news based on the current trending hashtags on Twitter as code.fun.do submission
- Developed basic platform game on game development framework **Unity** using JavaScript & C#, updated on Github

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