

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	Indian Institute of Technology, Kanpur	9.2/10.0
	in IME		
2017	ISC – XII	City Montessori School, Lucknow (CISCE)	95.5%
2015	ICSE – X	St. Francis' College, Lucknow (CISCE)	95%

HONORS AND ACHIEVEMENTS ___

2019	2nd in 15+ teams , Student AUV Competition (SAVe),	
2019	organised by NIOT, Chennai in 2019	
2017	Top 0.7%, JEE Advanced (amongst 160,000 candidates)	
2017	Top 0.001%, JEE Main (amongst 1.3 million candidates)	
2016	Top 1% (U.P), National Standard Examination in Physics, 2016, appeared for INPho	India
	Top 1% (India), National Standard Examination in Chemistry, 2016, appeared for INCho	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- Ported outdated available ROS code to operate on current development platform using ROS Kinetic on Ubuntu 14.04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_

Engineering Design and Graphics (A*) Dynamics (A) Fundamentals of Computing (A*) Mechanics Of Solids (A) Theory of Mechanisms and Machines (i) Multi-Variable Calculus

Fluid Mechanics (A) Thermodynamics (A) Introduction to Robotics (i) Energy Systems (i)

Probability & Statistics Complex Analysis

A*: Grade for exceptional performance, i: In progress, A: grade

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

Tuned and tested Cascaded PID Controller on the vehicle, enabling it to perform waypoint navigation & visual servoing

Realtine Onlogard ขอดิจอสเดย อาทามอัตการการแบบสมารายแบบ whicle 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)

Mechanical Quadruped

Course Project -TA202

MENTOR: PROF. SHANTANU BHATTACHARYA

4th Semester

- Designed and simulated a four-legged assembly that uses Jansen's linkage mechanism to walk using **Solidworks**
- · Made a working model of the same under constraints of size and materials using manufacturing processes such as lathing, milling and drilling

Chat-IITK

Advanced Track Project - ESC101

MENTOR: PROF. PUROSHOTTAM KAR

2nd Semester

April 2019 - Present

- 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

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