

# PRASANTH NATTEY

Third Year Undergraduate Student(16GG20018) • Department of Geology and Geophysics

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## EDUCATION

Year	Degree/ Board	University/ School	CGPA/ %
Present	Int.MSc. in Applied Geology	Indian Institute of Technology Kharagpur	8.06/10
2016	Board of Intermediate Examinations, AP	FIITJEE Junior College, Visakhapatnam - Class XII	95.7
2014	Central Board of Secondary Education	Timpany Steel City School, Visakhapatnam – Class X	9.4

## SCHOLASTIC ACHIEVEMENTS

- Secured an All India Rank of **8038** in **JEE Advanced** 2016
- INSPIRE Scholarship Awardee

## PROJECTS and INTERNSHIPS

- ❖ **Summer Internship at IIT Kharagpur - Prof. Biswajit Mishra** MAY 2018 – JUNE 2018

Petrographic Study of Amba Dongar region Carbonites, Gujarat. The instruments used were **Optical Microscope**, **X-Ray Diffraction**, **Electron Probe Micro Analyzer**, **Scanning Electron Microscope**.

- ❖ **TrapNEXT - An Electronic Pest Control System - Prof. Mrigank Sharad** OCTOBER 2017 – PRESENT

Built a Raspberry Pi based pest monitor which uses image processing to identify pests. The entire setup is solar powered. The data collected by the setup and mobile NET model is used to determine the type of insect with a 98% accuracy.

- ❖ **CoolNEXT – A Low Cost Cooling System for Agricultural Products - Prof. Mrigank Sharad** JANUARY 2018

Built a low cost cooling system by lowering the cutoff temperature of an Air Conditioner to a desired value with the help of a miniature heater and Arduino.

## TRAINING

- ❖ **Geological Field Training – Prof. A. Mukherjee, Prof. S. Ray, Prof. A. Basu** DECEMBER 2017

Observation of granitic country rocks with dolerite Dyke Intrusions, measurement of Dip, Dip Angle and Strike of different sets of joints, marking our location on a geological map using Back Bearing Technique in Balasore, Odisha.

Coast line mapping of different Sedimentary Facies in Chandipur, Odisha.

- ❖ **Phillips HUE workshop on Personal wireless lighting Systems** JANUARY 2018

Designed Colour Changing Lights System depending on the mood of the user using Phillips Hue Bulbs.

- ❖ **Brain Inspired Cognitive Computing Workshop** DECEMBER 2017

Learnt the implementation of various machine learning algorithms on dedicated hardware like FPGAs.

- ❖ **IEEE Workshop on Physical Programming** DECEMBER 2016

Built a **Gesture** controlled robot which can also detect obstacles in its path using Arduino, accelerometer, SONAR.

## RESEARCH EXPERIENCE

- ❖ **Mechanical Subsystem Head** at *Autonomous Underwater Vehicle* research group

## PATENTS

- ❖ Co-Inventor in the patent **Systems and Methods for Storage of Agricultural Products**

## TECHNICAL SKILLS

**Languages:** C, C#, Python, HTML, CSS

**Platforms:** OpenCV, Arduino, Raspberry Pi

**Softwares:** SOLIDWORKS, ANSYS, Visual Studio, Adobe Photoshop, Adobe Lightroom, MATLAB

**Other Skills:** Internet of Things.

## EXTRA ACADEMIC ACTIVITIES

- **General Secretary** Technology, B.R. Ambedkar Hall of residence. PRESENT
- Photography **Secretary, Technology Students Gymkhana**, IIT Kharagpur 2017-18
- Photographer at Kshitij Techno-Management Fest 2017 & 2018
- Photographer at Spring Fest 2018
- **Vice-Captain** of House in School for the academic Year. 2012-13
- Part of the Gold Winning Cricket team during Inter House Championship 2014
- Bagged Silver in Inter House Sketching Competition held at School level 2013
- Part of the 1<sup>st</sup> Runner-up Football team during Inter House Championship 2013
- Bagged Gold in Inter House Sketching Competition held at School level 2012