NEELABHRO ROY

Personal Data

Date of Birth:	2nd September, 1998
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Work Experience

August 2016-Present — Aurora (The UAV club of IIITD):
Crew Member, Core Hardware Team
Team Leader, Journal Paper Team

An active member of the Core Hardware team of the IIITD UAV (Unmanned Aerial Vehicle) Club, Aurora.Have been working on the modelling and construction of RC planes and Drones. Part of the Team preparing for SUAS-AUVSI 2017, Maryland, USA. This competition requires students to design, integrate, and demonstrate a UAS (Unmanned Aircraft System), capable of autonomous flights and navigation, remote sensing via onboard payload sensors, and execution of a specific set of tasks.

October 2016-Present — Cyborg (The Robotics Club of IIITD)
Member; IED Projects Mentor

Continuously involved in taking up projects and also in mentoring other students with theirs'.

August 2016-Present — Trivialis (The Quizzing Society of IIITD)
Events Co-ordinator

An active and passionate member of Trivialis, regularly participating in its events and representing the college in various Inter-College competitions, simultaneously encouraging batch-mates and seniors for participating in its events..

Education

July 2016- Present — IIIT Delhi,
1 st Year B.Tech Undergraduate , Electronics and Communication Engineering

April 2014-March 2016 — DAV, Dayanand Vihar, New Delhi
Completed class XII, with 95.3 per cent (PCME) in XII Board Exam, conducted by the CBSE.

2002-2014 — Bal Bharati Public School, Brij Vihar
Completed class X, with a perfect 10 CGPA, without upgradation

Honors and Awards

NTSE-I conducted by NCERT, India
Have won numerous accolades in various National, Inter-State and Inter-school Quizzes, Debates, Spellathons and Olympiads, throughout school and college life.

Languages

English
Hindi
Bengali

Skills

U.A.V. building (Drones and RC planes), Arduino, Raspberry Pi
Linux, Leadership, Java, Matlab, Verilog
Website Building, Electronics, Public Speaking
Quizzing, Circuit Analysis, Management
Shell Scripting, C, C++, Python

Projects

January 2017-Present

A MultiPurpose Drone

The prototype would be devised such that it could be used to deliver (Air-Drop) relief packages and provide support materials such as First-Aid and Food, in places of calamities and disasters, and also aid the Army in its rescue operations thereby.
A second use which we plan to implement is that, it be used for detecting garbage dumps, which comes to existence with the help of a camera mounted on it which will be monitored by a ground technician who'll be saving the precise GPS co-ordinates which he'll be receiving from the UAV.This will use a RaspBerryPi and Real-Time Video capturing. In the same way, it could be used to zero down on the locations of broken roads which is a huge problem in our country. The above UAVs could be made available to municipalities for an efficient maintenance of the cities.

November 2016

RC Plane to monitor variation in Air Quality with change in Altitude.

Designed a Totally Self made 14 channel Remote Controlled Aeroplane to monitor variation of air quality with change in Altitude using an Arduino, DHT 22. MQ 135 and other sensors.

October 2016

Device for monitoring change in Climatic Conditions

Made a device to Monitor the Changes in Climatic Conditions with respect to Sunlight, CO_2 levels, Humidity etc. using Arduino, DHT 11 , MQ 135. A low cost device which could be made available to farmers for facilitating efficient Agriculture.