

Arnav Garg

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LINKS

Github:// [garnav98](#)
LinkedIn:// [arnav-garg](#)
Visit my site:// [Arnav Garg](#)

COURSEWORK

- Applied statistics and probability (Ongoing)
- Introduction to Electronics (Ongoing)
- Fundamentals of Computing
- Multivariate Calculus
- Linear Algebra and ODE
- Partial Differential Equations
- Communication Skills

SKILLS

PROGRAMMING

- C/C++ • Python • ROS • OpenCV
- Shell Scripting • Bash Scripting
- ActionLib • Scikit-Learn • Sublime
- Github • \LaTeX • Arduino

SIMULATION

- Solidworks • AutoDesk Fusion
- Gazebo

PLATFORMS

- Windows • Linux (Ubuntu)

EXTRACURRICULAR

ACTIVITIES

- Junior executive, E-summit; entrepreneurial fest of IITK
- 3rd posn. in Robotricks, TAKNEEK'16 (Sci. & Tech. championship)
- 2nd Posn. in Backdrop, GALAXY'16 (Cultural championship)

EDUCATION

| Year | Degree | Institute | CPI/% |
|----------------------|-------------------|------------|-------|
| 2016-2020 (expected) | B.Tech, CE | IIT Kanpur | 8.6* |
| 2016 | CBSE-AISSCE(12th) | DPS Rewari | 97% |
| 2014 | CBSE-AISSCE(10th) | DPS Rewari | 10.0 |

SELECTED PROJECTS

AUV-IITK (AUTONOMOUS UNDERWATER VEHICLE) * |

SOFTWARE SUBSYSTEM UNDER PROF. SACHIN Y. SHINDE | FEBRUARY 2017

– PRESENT

- Designed and tuned a PID based controller for the robot's five degrees of freedom using ROS and arduino. [View Code](#).
- Cleaned and documented the code for the previous vehicle 'VARUN'.
- Aiming to participate in SAUVC'18 (Singapore), an international competition of Autonomous Underwater Vehicles.

MAIL-CLASSIFIER | MACHINE LEARNING

May 2017 – July 2017 | Programming Club IITK

- Created a classifier capable of segregating e-mails into desired sub-categories like sports, education, music, etc. using scikit modules.
- Optimized the code using different algorithms like 'naive-bayes', 'SVM' etc. to reach an accuracy of above 90%.
- All code was reviewed, perfected, and pushed. [View Code](#).

ACHIEVEMENTS AND AWARDS

| | | |
|------|---------------------------------|--|
| 2016 | All India Rank 2943 | JEE Advance, 2016 |
| 2016 | All India Rank 713 | JEE Mains, 2016 |
| 2016 | Certificate of Merit (Top 0.1%) | CBSE (Class 12th) |
| 2014 | Qualified for National-level | NTSE |
| 2013 | International Rank 3 | International Olympiad of Science 2013 |

POSITIONS OF RESPONSIBILITY

- Academic Mentor, Counselling Service, IIT Kanpur:
 - Mentoring over 100 students in the course of "Introduction to Mechanics" and ensuring their adjustment in the subject.
 - Personally mentoring three students facing academic difficulties on a one-to-one basis, helping them avoid failing the course.
- Student Guide under Counselling Service, IIT Kanpur: Assisted 6 freshmen students in adjusting to the college environment.
- Secretary, Robotics Club:
 - Organized and contributed to the club workshops, lectures, talks.
 - Guided 6 teams during TAKNEEK'17 (Sci. & Tech. championship) to successfully participate in the event.

*At the end of 3rd semester