Arnav Garg

arnavgar@iitk.ac.in
gargarnav98@gmail.com | +91 7318017500

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 • Arduino
- ActionLib • Scikit-Learn • Sublime
- Github • LATEX

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, Civil Engineering	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 | FEB. 2017 – FEB. 2018

- Designed and tuned a PID based controller for the robot's five degrees of freedom using ROS and arduino. View Code.
- Implemented Dynamic reconfiguration to change parameters during runtime.
- Cleaned and documented the code for the previous vehicle ' VARUN '.

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