

Sarthak Raj **Civil Engineering Indian Institute of Technology Bombay** 20D180031 B.Tech. Gender: Male

DOB: 17-03-2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bomba	y IIT Bombay	2024	8.31
TECHNICAL S Programming Environment Softwares(Ele Softwares(Ge	g: s: ectronics):	C, C++, Python, HTML, CSS, Arduino, MATLAB Jupyter Notebook, PyCharm, Visual Studio Code, Arduino Autodesk Eagle (PCB Designing), BQStudios, LTSpice LATEX, Git, AutoCAD, GNU Octave, MATLAB		
RELEVANT L	INKS			
LinkedIn: GitHub: Major Proj	ECTS	https://www.linkedin.com/in/sarthak-raj/https://github.com/SarthakRaj1703		
of an Autono • Achieved 2nd	a multi-disciplin mous Underw position in Vi	ary, all students team of 55 members working on the design a cater Vehicle, Matsya, capable of performing realistic naval deo Presentation, 4th position in Technical Design Report, a cional teams in RoboSub '21 (online), organised by RoboN	l missio and 6th	ns
 Designed a 1 of the be autonomo Created a PC H-Bridge Mo 	degree of freedously controlle B capable of Cootor Driver us	trical Sub-Division of AUV-IITB lom gripper connected with a 3 degrees of freedom armat d to grip objects of various dimensions underwater in naval r AN, USB and RS-485 communication at 10 Mbps baud ing PWM Signals up to a range of 20 kHz for rotational sp using C/C++ to detect current surges up to 30A to identify	cure that nissions rate to co peed cont	ontrol an rol
 Designed a Ba (SOH) and for (SOH) and for Configured the Programmed to Established coordinated a B INDUSTRIAL CONTRIBUTION INDUSTRIAL CONTRIB	attery Manager implementation of BQ76952 Bathe ATMega32 demmunication between the BQTABORAT Remotely Open the Battery Remotely Remotely Remotely Open the Battery Remotely Remotely Remotely Remotely Re	perated Vehicle for Inspection and Surveillance	State of ancy o Batte vironmen kHz I2C e. Jan '21	ries t
• The project is Scheme , a tee	r of a team work a joint effort by chnology develop	cena Vachhani Department of Systems and Coxing under Prof. Leena Vachhani to develop a Class-1 ROV IIT Bombay and Larsen & Toubro Limited, under the Doment Initiative by MHRD, Government of India at; the ROV is aimed to be deployed in Sea waters for scanning	IMPRI	NT II.C
		TTS		
• Attained Dep	artment Rank	2 in the Department of Civil Engineering, batch of 2024	Į.	

- Pursuing a minor degree in Computer Science and Engineering, IIT Bombay
- Awarded a Change of Branch to Deptt. of Civil Engineering (1 out of 1300+ freshmen) (2021)
- Secured All India Rank 4874 in Joint Entrance Exam-Advanced out of 150 thousand candidates further shortlisted from 1.1 million candidates in Joint Entrance Exam-Main (2020)

Extracurricular Activities _

- Participated in techfests and science exhibitions and competitions organized regionally (2019)
- Engineered a Paper Recycling Workstation for CBSE Regional Science Exhibition (2019)
- Participated in the Rural Immersion Programme and lived in rural areas to understand problems faced by rural India including sanitation, women empowerment and small-scale industries (2018)
- Worked for Le Benevolat and organized events to revive the Khadi Industry of the country (2016-17)