Abhinav Badegaonkar **24B0358**

Chemical Engineering **First Year (B.Tech.)**
Indian Institute of Technology Bombay
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Examination	University	Institute	Year	CPI/%
Graduation	IIT Bombay	IIT Bombay	2028	9.03
Intermediate	CBSE	Vindhyachal Academy	2024	94.8
Matriculation	CBSE	Vindhyachal Academy	2022	98

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 2364** among **.2 Million+** students in the Joint Entrance Examination Advanced *(2024)*
- Secured **99.86 percentile** in Joint Entrance Examination Mains among **1.5 Million+** candidates *(2024)*
- Secured **top 1%** position in the National Standard Examination in Chemistry among **45,000+**candidates *(2023)*

POSITIONS OF RESPONSIBILITY

Developer | DevCom, IIT Bombay *(Mar '25- Present)*
Developers' Community of the Indian Institute of Technology, Bombay

- Learned and applied **HTML, CSS, JavaScript, React and Flask** through hands-on development and projects
- Onboarded to *Messi*, a QR-based meal tracking app to streamline mess operations and enhance user experience
- Collaborated in a **team of 5** to develop an Inventory Management System that empowers small shopkeepers to efficiently track daily sales, monitor stock levels in real time and generate detailed performance reports

Junior Airframe Engineer | The IITB Rocket Team *(Oct '24- Present)*
IN-SPACe recognised team of students developing high powered model rockets

- Designed and simulated rocket components using **SolidWorks and OpenRocket** optimizing for efficiency
- Worked on composite structures using fiberglass and epoxy through **layups and resin infusion** methods
- Fabricated structural parts using advanced manufacturing techniques like **3D printing and laser cutting**
- Gained hands-on experience in **aerodynamics, composite materials, and overall rocketry design**

KEY PROJECTS

Quadcopter Design and Implementation | Course Project, Makerspace *(Jan '25-Apr '25)*
Guide: Prof. Joseph John, Department of Electrical Engineering, IIT Bombay

- Collaborated in a **team of 6** to design and build a fully functional drone with stable flight capability
- Created optimized drone components in **Fusion 360 and LaserCAD** using **generative design**
- Fabricated custom drone parts with **laser cutting** and **3D printing** to achieve modular lightweight builds
- **Soldered PCBs** and integrated **ESP-WROOM-32** and **Arduino Nano** to enable drone control and functionality

XRL8 Bot Project | Electronics and Robotics Club, IIT Bombay| *(Oct '24)*

Worked in a team of 4 to build a joystick-controlled bot, competing on challenging obstacle tracks

- Precisely engineered the bot's chassis for structural accuracy, ensuring optimal performance and durability
- Executed code using Arduino IDE, ESP-32, and LN298 driver, Enabled smooth control and responsiveness
- Designed an advanced sensor-equipped remote control interface to significantly improve maneuverability

EnB Buzz | BMC Project | Entrepreneurship and Business Club, IIT Bombay *(Sept '24)*

Worked in a team of 3 and pitched an idea for a platform that connects clients with lawyers and provides reliable legal information

- Developed an innovative and cost-effective start-up idea on the given topic and made BMC on the same
- Learnt the fundamentals of creating a Business Model Canvas and analyzed key needs in the law sector

EXTRA-CURRICULAR ACTIVITIES

Sports	• Pursued training in wall climbing under the National Sports Organization, IIT Bombay • Trekked Visapur fort (3567 ft)
Technical skills	• Languages: C++, Python , JavaScript , HTML ,CSS • Frameworks: React,Flask • Tools: Solidworks, OpenRocket, Fusion 360, Arduino IDE, LaserCAD