



Laxman Desai
Chemical Engineering
Indian Institute of Technology Bombay

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UG Second Year
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| Examination | University | Institute | Year | CPI / % |
|-------------|------------|------------|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2021 | 0.00 |

EXPERIENCE

Tech Leaders Summer Fellow Jun. 2020 - Aug. 2020
Camp K12 Mumbai, India

- Taught coding in an intuitive manner to **100+** students aged 14 - 18 years using **Python** and **JavaScript**
- Spearheaded the redesign & diversification of the existing curriculum leading to **15%** increase in revenue
- Covered curriculum spanning from basics such as Iterators to complex algorithms like Divide & Conquer
- Utilized AI Playground, Repl.it, Hatch XR, and MIT App Inventor

Design Secretary (Apr. 2020 - Ongoing)
Chemical Engineering Association (ChEA), IIT Bombay Mumbai, India

- Part of a **9** member team, selected out of **50+** students on the basis of manifesto, assignment & interview
- Co-organised and coordinated **20+** departmental events, managing **1000+** unique students in total
- Crafted posters, curated content, designed hoodies for the graduating batch leading to higher engagement
- Utilised **CorelDraw** & **Adobe Creative Cloud** (Illustrator, Photoshop, Premiere Pro & After Effects)

Institute Cultural Mentor (Jun. 2020 - Ongoing)
StyleUp - The Fashion Club, Culturals, IIT Bombay Mumbai, India

- Nominated (**4** out of **100+**) by Institute Fashion Nominee to promote fashion & other cultural activities
- Conceptualized and spearheaded Style Saturday, a monthly blog aimed at promoting style, grooming and personal well being amidst the COVID lock down resulting in **2×** monthly engagement
- Led the ideation & execution of various genre related events, targeting **300% increase** in participation by introducing mixed themes, using innovative publicity, and introducing large scale never before seen online events such as Glamour Grande, an online fashion show

PROJECTS

Smart Suitcase | *Python, OpenCV, ROS, Gazebo, RViz, RQT* (Mar. 2020 - Jul. 2020)
Institute Technical Summer Project, IIT Bombay Guide: Vishwajeet Bhagyawant

- Designed a suitcase that follows its owner there by eliminating the trouble of carrying it around
- Tested its functioning through virtual simulation by deploying it on a user controlled test target
- Implemented image processing through **Python** & **OpenCV** to scan the surroundings and lock down on the target through the **HSV** color range and used centroid tracking for mimicking the targets motion
- Accurately & efficiently simulated the bot and the control target using **Gazebo**, while using **ROS** to facilitate low-level device control and communication between various sub-processes

Wireless Remote Controlled Car | *IoT* (Aug. 2019 - Sep. 2019)
Electronics & Robotics Club, IIT Bombay

- Built a bot which decodes Bluetooth signals using an **ATtiny** IC to overcome an obstacle-filled course
- Installed **HC05** Bluetooth module to operate the bot remotely using an Android app
- Implemented differential steering mechanism via **L293D** motor driver for reducing the turning radius

ACHIEVEMENTS

Competitive Coding : 4★ CodeChef (relaxxpls) • Specialist Codeforces (relaxxpls)

Engineering Entrances : AIR 1448 JEE Advanced • 99.6%ile JEE Mains • 2nd Rank, Phy Topper GCET

Medical Entrances : AIR 1064 AIIMS • 98.7%ile (3rd highest in Goa) NEET

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, HTML/CSS, XML, Bash

Tools: Git, Matlab, Linux Terminal, Eclipse, L^AT_EX, AutoCAD, SolidWorks, Bash, ROS, CMake, Adobe CC

Libraries: STL, NumPy, OpenCV, TKinter