



Laxman Desai
Chemical Engineering
Indian Institute of Technology Bombay

190020066
UG Second Year
Male
DOB: 02/05/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	8.51
Intermediate/+2	H.S.S (Goa Board)	Mushtifund Aryaan Higher Secondary School	2019	84.33
Matriculation	I.C.S.E	Sharada Mandir School	2017	91.60

INTERNSHIPS

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

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

Remote Controlled Airplane | *IoT* (Sep. 2019 - Oct. 2019)
Aeromodelling Club, IIT Bombay

- Designed fuselage, stabilizers and wings to reduce drag and enhance the performance
- Investigated design parameters for optimum performance and stability during flight

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

- **Specialist** at Codeforces and **5★** at CodeChef (Sept. 2020)
- Secured **AIR 1448** amongst **15lakh** other candidates in JEE Advanced (2019)
- Secured **AIR 1063** amongst **10lakh** other candidates in AIIMS Entrance Test (2019)
- Secured **99.6%ile** in JEE Mains and **98.7%ile** in NEET amongst **18lakh** candidates (2019)
- **Physics Topper** and overall **2nd** Ranker in GCET among **10,000** other applicants (2019)
- Scored **396/450** in BITSAT placing in top **0.1%ile** of applicants (2019)
- Received scholarship in State Talent Search Examination for **2** consecutive years (2018 - 2019)

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

POSITION OF RESPONSIBILITY

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

Robowars Organizer

(Oct. 2019 - Jan. 2020)

Techfest, IIT Bombay

Mumbai, India

- Part of a team organising Asia's largest college technological festival, handling a total footfall of **1lakh+**
- Led a group of **10+** organizers handling the sound system at India's largest robot combat competition

KEY COURSES

Computer Sci. : DSA Specialization (UC San Diego, Coursera), Machine Learning[†] (CS50 Harvard, edX)
Data Structures & Algorithms (Summer Of Science '20) [[†] : To be completed by Nov '20]

Mathematics : Numerical Analysis, Linear & Computational Algebra, Differential Equations, Calculus

Chemical Eng. : Transport Phenomena[†], Thermodynamics[†], Computational Methods[†]

EXTRACURRICULARS

- Mentored **100+** PG freshers and introduced them to various cultural activities (Sept. 2020)
- Successfully completed a Finance Bootcamp organised by Finance Club, IIT Bombay which taught and tested the knowledge of Financial Statements, Capital Markets & Ratio Analysis (Apr. 2020)
- Produced a song and released it on Spotify as a part of Institute Cultural Summer Project (Aug. 2020)
- Participated in StyleUp's Showstopper 2020 and performed to an audience of **1000+** (Jan. 2020)
- Professionally trained in table tennis through the National Sports Organization (NSO) (2019 - 2020)
- Directed, Edited and Starred in a **3rd** Prize winning comedy video "Area 51 Leaks", made as an entry for freshmen festival - Freshiezza (Sep. 2019)
- Played football (midfielder) for Sharada Mandir School team at state level (2015 - 2016)