Laxman Desai
Chemical Engineering
Indian Institute of Technology Bombay

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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

- **4★** at CodeChef (relaxxpls) and **1048th** amongst **9000+** participants in Googe Kickstart   *(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)*
- Goa State Talent Search Examination scholar for **2** consecutive years   *(2018 - 2019)*

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, HTML/CSS, Bash, Matlab, R
Tools: Git, PowerShell, Sublime Text, LaTeX, AutoCAD, SolidWorks, ROS, CMake, Adobe Creative Cloud
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 new and innovative department hoodies leading to higher sales
- 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. :	Cryptography & Network Security†, Introduction to Machine Learning†, Data Analysis†
	DSA Specialization (UC San Diego, Coursera), Machine Learning† (CS50 Harvard, edX)
	Data Structures & Algoritms (Summer Of Science '20) *[$\dagger$: To be completed by Apr '21]*
Mathematics :	Numerical Analysis, Linear Algebra, Differential Equations, Discrete Structures†
Chemical Eng. :	Process Fluid Mechanics†, Heat Transfer†, Thermodynamics, Computational Methods

Extracurriculars

- Mentored **200+** UG & 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 the freshmen festival (Freshiezza) *(Sep. 2019)*
- Played football (midfielder) for Sharada Mandir School team at state level *(2015 - 2016)*