A-105, First Floor, Siddhant Market, Opposite Allahabad Bank, Panvel, MH Ph: +91 9004610814 Email: suyog.sarda@gmail.com



An Engineer from IIT

Bombay (Electrical) with

proficiency in

programming, scripting and
software development.

Ability to persevere and deliver results is my key strength.

### **Scholastic Achievements**

- Secured All India Rank of 151 in IIT JEE Advanced 2013 among 0.15 million students
- Secured All India 99.85 Percentile in IIT JEE Mains 2013 among 1.3 million students
- Recipient of Merit-Cum-Means **Scholarship** for being in **top 25%** of IIT Bombay students

### Software Skills and Programming Languages

Programming: Python, C, Data Structures, Algorithms

Platforms : MATLAB, Octave

### **Work Experience**

# Xilinx India Technology Services Pvt. Ltd.

Feb 2019 - May 2019

- Worked on the proprietary Video Transmission Intellectual Property based on FPGA
- Scripted code in **Python** for interconnection of JSON modules of ports on FPGA board
- Worked with the video compression and decompression modules written in **C language**
- Closely appraised and understood the proprietary Video IP codec technology in detail

#### **Academic Record**

Examination	University	Year	CPI / %
Graduation / B.Tech.	IIT Bombay	2018	6
Intermediate	HSC	2012	86.33
Matriculation	CBSE	2010	94

#### **Development experience**

#### <u>Cryptocurrency: Blockchain Technology</u> | *Project (Python)*

- Developed a Web Application with functionalities like adding transactions, mining new blocks, updating the blockchain
- Blockchain secured by Hash and Proof of work in every block; Public and Private key pair used for validating transactions
- Resolved conflicts of different versions of blockchain at localised nodes using
   Consensus Algorithm for final valid chain
- Web Application hosted on local HTTP server set up using Flask package; code scripted using Object Oriented Programming; web UI developed using HTML

#### Web Development | Project (Django 2 & Python)

- Developed 3 websites: Product Hunt clone, Personal Portfolio and Word Counter
- Worked with Django's URL routing, function and class based views, models;
   connected the websites to SQLite and Postgres databases
- Made responsive websites with the help of Bootstrap 4; icons added via Iconic
- Submitted and handled HTML form data; websites hosted on local HTTP server

#### Research project

### Bicycle Pooling System | B.Tech Project (MATLAB)

- Developed algorithms implementing a model of Bicycle Pooling System, given a city's Population Distribution Function
- The optimum locations of the bicycle renting stations were found by simulations using
   K-means clustering algorithm
- Algorithms were based on the Demand based network planning methods of cellular mobile network models

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## **Projects/ Academic Assignments**

- Low-Cost 2 Mbps Plastic Optical Fibre Link: Developed low cost device that can serve as replacement for RS422 link; enabling sending signals at data rates of upto 2Mbps
- <u>Skill Gap Analysis-Case Study: Wada block</u>: Surveyed 50+ villagers in 6 villages for finding existing skillset. Surveyed 15+ industries for finding expected skillset in labour
- <u>Broadband Power Combiner</u>: Simulated RF frequency broadband power combiner, which allows 1-to-N or N-to-1 power division and combination for any arbitrary N
- <u>Estimation of Gravitational Acceleration</u>: Tracked the movement of simple pendulum to obtain voltage-time data. Performed calculations to find acceleration due to gravity
- <u>Silicon Nanowire Bi-Stable Resistor</u>: Showed bi-stable current-voltage behaviour in 2terminal device structure. Can be implemented for memory, optical processing devices
- <u>Relationship b/w Electricity Consumption & Rural Household Development</u>:
   Surveyed 160+ village households in 4 villages; analysed village & community level

# **Responsibilities / Organizations Involved In**

## Events, Coordinator | Techfest, Asia's largest technical festival

- Organized the event Magneto held for the first time which involved 80+ participant teams and handled its pre-event planning
- Spearheaded team of approximately 10 organizers and delegated for outstanding execution of event
- Strategically and effectively promoted the competition and made it one of the most popular events of Techfest

#### Pronites, Coordinator | Mood Indigo, Asia's largest college cultural festival

- Part of a team of 16 coordinators responsible for executing 4 professional concerts, catering to 60,000+ people across 4 days
- Led a team of 20+ organisers from backstage, headed food, transport & accommodation arrangements for 40+ artists
- Ideated and executed Livewire, a semi professional band competition, which oversaw 50+ competitors from all over India

### **Other Interests & Achievements**

- Completed 2-semester National Social Services-Green Campus course, planted around
   120+ trees, produced organic manure from food wastages of Hostel Messes
- Professional Half-Marathon (21.1 km) runner & enthusiast mountain climber
- Participated in Line Follower Robot competition, XLR8 Racing competition, RC Plane making competition at Electronics and Robotics Club of IIT Bombay
- Volunteered for Antarchakshu, a social initiative of Abhyuday, IIT Bombay
- Amateur in playing Table Tennis, Badminton, Cricket, Chess and Swimming
- My hobbies include reading fiction novels, reading and writing poetry, travelling and trying out new cuisine from different places