

Anoosha Seelam

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PROFESSIONAL EXPERIENCE

Oravel Stays (OYO): Firmware Developer, Bangalore, KA

(Jun 2019 – Jan 2020)

- Develop, test and debugging of new features implementation and functionality enhancement in Agile environment using test-driven development approach and modular coding.
- Developed low level platform driver code in C for peripherals of IoT products like smart-switch and smart-lock.
- Implemented a time-based OTP feature for smart unlock system which has a market scale of 25000 devices.
- Worked closely with product and project management, cloud and software team to deliver end-to-end solutions.

Dynasense Technologies: Intern, Mumbai, MH

(May 2017 – Jul 2017)

- Designed and developed a software architecture and implemented a low-level source code in C to determine the approximate glucose concentration in blood.
- Implemented a software algorithm in C for calibration and testing of the sensor data and achieved 86% accuracy.

RELEVANT PROJECTS

Gland Segmentation using Deep Learning: B.Tech Project

(Jul 2018 – May 2019)

- Analyzed various research papers on image segmentation and successfully implemented a peak response map algorithm on PASCAL-VOC dataset with 10,000 images.
- Fine-tuned the peak response map algorithm in Python for prostate cancer detection and achieved an accuracy of **80%**.

Image Mosaicking using Fourier Transform: Course Project

(Jan 2018 – Apr 2018)

- Aligned multiple images having at least 50 percent overlap to get a high-resolution image composite.
- Implemented algorithm based on Fourier shift transform and simulated a script in MATLAB to obtain transform parameters in frequency domain.

High Frequency Oscillator: Course Project

(Jan 2018 – Apr 2018)

- Designed an Oscillator prototype circuit for monitoring soil moisture with LC resonant tank using only discrete components and achieved 45MHz operating frequency.

Gesture Controlled Bot: Summer Project

(May 2016 – Jul 2016)

- Implemented a hand-gesture-based control interface for navigating a car robot using Arduino UNO.
- Developed a decision algorithm in C to map the hand trajectory data with appropriate directions.

EDUCATION

Indian Institute of Technology, Bombay: B.Tech., Electrical Engineering

(Jul 2015 – May 2019)

Coursework: Computer Programming and Utilization, Microprocessors, Electronic Devices and circuits, Linear Algebra, Electrical Machines and Power electronics.

Independent Coursework (MOOC):

- *Neural Networks and Deep Learning:* Andrew Ng, [deeplearning.ai](#), [Coursera](#)
- *Python for Data Science and Machine Learning:* Jose Portilla, [Udemy](#)
- *Algorithm Toolbox:* UC San Diego, [Coursera](#)

SKILLS

Programming Languages	C(Proficient), C++(Proficient), Python(Intermediate), SQL(Basic), MATLAB(Intermediate)
Software	Arduino IDE, Eclipse, Visual Studio Code, Git, JIRA, Flask, MongoDB
Machine Learning	TensorFlow, Keras, NumPy, pandas, seaborn, matplotlib, scikit-learn

HONORS

- Received a **Special Mention award** by Hostel Affairs, IIT Bombay for excellent organization of tech culture. (2017)
- Ranked All India **989** in JEE-ADVANCED and 99.94 percentile in JEE-MAINS among 1.35 million aspirants. (2015)
- Secured All India Rank 15 in National Mathematical Talent Contest, NMTC. (2009)

LEADERSHIP ROLES

Technical Councilor: Hostel 10, IIT Bombay

(May 2017 – Apr 2018)

- Elected by 1000+ students as Technical Councilor in the hostel to administrate the technical activities and enhanced the technical culture in the hostel by conducting various workshops and competitions.

Interview Co-Ordinator: Placement Cell, IIT Bombay

(Dec 2016 – Jan 2016)

- Co-ordinated with more than 10 companies as Interview coordinator and assisted placement of 1600+ students within a team of 200 students over a period of 16 days.