

DHRUMIL GAJERA

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Personal Statement

I'm a final year Electronics Engineering student with hands-on experience in analog IC design, Verilog, and a passion for IoT and IC design. My internships at Artronics PVT. LTD. and eInfochips have equipped me with practical skills in circuit design and teamwork. As Chairperson at IEEE BVM Student Branch, I've demonstrated leadership, I'm ready to contribute to dynamic engineering projects, driven by a commitment to excellence and creativity in Electronics Engineering.

Education

B. Tech – Electronics Engineering

07/2020 - Present

Birla Vishvakarma Mahavidyalaya Engineering college (BVM)
(NAAC Accredited: 'A' Grade)
Anand, Gujarat, 388120
CPI: 7.7

Higher Secondary

06/2018 - 04/2020

Ashadeep Science Bhavan
Surat, Gujarat, 395006
Percentage: 71%

Work Experience

Summer Intern

06/2023 – 07/2023

E- Infochips - Ahmedabad, Gujarat

Throughout this internship, I acquired a comprehensive grasp of Verilog and thrived in a dynamic eInfochips environment that fostered innovation, creativity, and a commitment to lifelong learning. Furthermore, I collaborated with diverse colleagues and engaged in various interest groups, a valuable experience that enriched both my personal and professional relationships.

Intern

05/2023 – 06/2023

Artronics PVT LTD - Gandhinagar, Gujarat

I've acquired valuable expertise in analog IC design circuits and the utilization of Cadence Virtuoso, we designed and simulated analog circuits like amplifiers, Current mirrors and many more, this experience has allowed me to collaborate closely with seasoned engineers, providing me with insights into the complexities of analog circuit design and development.

Intern

01/06/2022 – 16/06/2022

Technorise Embtech LLP – Surat, Gujarat

During the internship, I acquired foundational knowledge in embedded systems. My primary responsibility was to assist in establishing robotics labs in various colleges and schools.

Professional Relevant Skills

- Verilog
- Digital Logic Design
- C Programming
- Python
- Strategic Planning
- Leadership
- Graphics Design

Publication

Evaluation of the Socio-Economic Survey and Statistical Metrics for Lambhvel Village, Gujarat State

International Journal of Engineering and Management Research · Jun 22, 2023

<https://ijemr.vandanapublications.com/index.php/ijemr/article/view/1270>

Extra Curriculum Activities

Chairperson

01/2023 – Present

IEEE BVM Student Branch - Anand, Gujarat

I am actively contributing to the IEEE Student Chapter's planning, project execution, workshops, and event management in alignment with the organization's goals and objectives. As the leader of a dedicated team of over 100 volunteers, I successfully led the organization to achieve the prestigious title of "Best Student Branch" within our Gujarat section.

Graphics Team Head and Electronics Branch representative

01/2022 – 01/2023

IEEE BVM Student Branch - Anand, Gujarat

Having served as the Graphic Team Head in IEEE BVM SB, I played a pivotal role in the success of the flagship event, ESTC, which saw the enthusiastic participation of over 300 students. The dedication and teamwork exhibited during this event led to my promotion as Chairperson of the Student Branch. In addition, I served as a representative of our Electronic Branch, working diligently to increase membership and foster a thriving community of like-minded individuals. Passionate about technology and committed to driving innovation and growth within IEEE BVM SB.

Coordinator

08/2022 – 06/2023

NSS (National Service Scheme) BVM

Experienced Student Coordinator in NSS (National Service Scheme) with a passion for community service and humanitarian initiatives. Proficient in organizing and leading impactful events, including blood donation camps, green campus activities, and village camps, working to create a positive change in underprivileged areas. Published a research paper on village survey, contributing to the field of community development. Committed to making a difference and eager to collaborate on meaningful events.

Projects

● Satellite communications using a multiband Microstrip patch antenna

07/2023 – Present

We are designing antenna which works on frequencies like 7.97 GHz, 9.81 GHz, 11.85 GHz, 14.18 GHz, and 16.51 GHz.

Guide: Dr. Jagadish M Rathod

● Micro strip Patch antenna for S Band Communion

03/2023 - 05/2023

Designed his antenna using HFSS Software and simulated it, the result is 2.4 GHz which comes under the s parameter

● Air Quality Monitoring System

01/2022 - 03/2022

This project model is used in numerous cities with significant levels of pollution, Using this module, we can determine the levels of CO, CH₄, temperature, and humidity.
Guide: Prof. Anita Bhatt

● Self-Balancing Robot

07/2021 - 10/2021

Gyroscope (MPU6050) is utilised to balance the robot, and this idea is also employed in human-driven vehicles such as segway robots.

Certifications

- C Based VLSI (NPTEL)
- Programming Using Python (Coursera)
- Cloud Computing (NPTEL)
- The Arduino platform & C Programming (Coursera)

Community Services

- Actively participated in Blood Donation Camps organized by NSS BVM on a regular basis.
- Contributed to the Green Campus Clean Campus Initiative.
- Played a key role as a team member in organizing the college-level events for National Republic Day and Independence Day.
- Held the esteemed position of Graphics & Publication Head during the Platinum Jubilee Celebration of the College.
- Contributed to tree plantation events to promote a healthier and more sustainable environment.