



SHYAM GAGLIYA

Address : Rajkot Gujarat, India

Mobile : +91-8780882517

Email : shyamgagliya888@gmail.com

LinkedIn : [linkedin.com/in/shyam-gagliya-5a66621b1](https://www.linkedin.com/in/shyam-gagliya-5a66621b1)

OBJECTIVE

I am an ambitious Recently Graduated Electrical Engineer, with 1 year of hands-on experience, including a prestigious internship at Tatung University Taiwan in hardware security design and Testing. Proficient in EDA tools, circuit design, PCB Assembly with a strong foundation in MATLAB, Cadence, Hspice, and SAP MM tool. Seeking an entry-level Electrical engineering role to contribute technical expertise to innovative projects and leveraging skill in advanced technology integration. **Immediate Available**

EDUCATION

Bachelors of Electrical Engineering

Chandigarh University – Punjab

2021 – 2024, 7.3 CGPA

One semester in Universiti of Malaya, Malaysia

Diploma Electrical Engineering

Gujarat Technical University-Gujarat

2017 - 2020, 8.19 CGPA

PROFESSIONAL EXPERIENCE

Research Intern (2024.05 ~ 2024 .08)

Tatung University Taiwan.

- Assisted a team of colleagues, collaborated with mentors, and coordinated with TSMC to design and develop a physical model for PUF-based hardware.
- Gained proficiency in advanced Electronic Design Automation (EDA) tools like Cadence Virtuoso and HSPICE for schematic design, simulation, and layout development of integrated circuits.
- Acquired hands-on experience in FPGA implementation, chip measurement, and testing techniques to validate and refine hardware designs for real-world applications.

Project

PUF based hardware security

- Designed and developed innovative PUF architectures, including Oscillator Collapse PUF (OC-PUF), optimized for ultra-low power IoT applications by reducing power-hungry components and enhancing reliability.
- Produce a hardware-based chip as the final output of the project and fabricate it using TSMC's manufacturing services.
- Explored ongoing advancements in semiconductor technology, including TSMC's chip design innovations, and gained exposure to entrepreneurial strategies within the industry.

Industrial Training (2022.06 ~ 2022.07)

Dudhat Industries PVT.LTD Gujarat, India.

- Conducted comprehensive tests for surge, voltage, lumens, and efficiency to ensure compliance with product quality standards and performance benchmarks.
- Gained practical experience in Printed Circuit Board (PCB) manufacturing processes, including component placement and assembly, ensuring precision and reliability in product design.
- Developed a strong understanding of testing methodologies and tools used for lighting and PCB evaluations, enhancing technical expertise in hardware quality assurance.
- Understand rigorous product testing and validation to maintain high-quality standards and identify potential improvements in design and performance.

Research helper (2022.10 ~ 2023.02)

Photonics Lab university Malaya Malaysia

- Assisted in ongoing studies on integrated photonics, contributing to experimental setups, data collection, and analysis to advance research objectives
- Conducted extensive literature reviews on topics like imaging, sensors, and optical data storage, synthesizing insights to inform

- and support lab projects.
- Managed documentation tasks, including preparing detailed reports and creating presentations for project updates, ensuring clear communication of research findings.

Intern

Paschim Gujarat vij company limited. Gujarat, India

- Gained a thorough understanding of Indian government electricity regulations, transmission practices, and the working principles of power transformers, current transformers (CT), and potential transformers (PT).
- Acquired hands-on experience in energy meter calibration, smart meter functionality, and identifying potential threats, along with strategies to prevent them, ensuring secure and accurate power monitoring.
- Actively contributed to documentation tasks and applied technical knowledge to analyze, document, and report findings, supporting regulatory compliance and operational efficiency.

SKILLS

Technical Competencies: Electrical circuit design | Assembly | PLC work | Power system Analysis | Electronics design | Research | C++ | Programming

Technical Tools : MATLAB | EDA Tools | Hspice | Cadence | SAP MM | Pspice | Ms Office (word, excel, ppt)

Interpersonal Skill : Communication | Research Analysis | Leadership | Literature Review | Problem Solving

PERSONAL PROJECTS

Pitch angle control of wind turbine using optimization techniques (Research)

Using different type of optimization techniques to control the wind turbine pitch angle for getting maximum output. Such as PSO and GA optimization techniques that used in the MATLAB.

Smart helmet for rider (Accident prevention)

By detecting air quality, accident detection, gsm and gps monitoring, providing power backup from solar panel, alcohol detection and acceleration control of bike at medium level.

Solar tracking system using Arduino UNO by not Using LDR

Controlling solar panel without using LDR sensor in it, it was sensor less solar tracking we have done for getting efficient energy output from the solar panel.

Battery management system

Integrated real-time monitoring with IoT sensors to collect comprehensive data on battery performance. optimize charging/discharging profiles for efficiency and longevity. Temperature monitoring to prevent overheating.

- Multi motor control using drive L293D
- Home Automation
- UPS control Lab wiring - in diploma final project

ACHIEVEMENT

- Organized workshop in university on the topic of "Smart Grid"
- One great success was my semester exchange program to Malaysia.
- Given the speech in the front of many student on the topic of "Happiness in the Life"
- One Hour Online Code By Microsoft
- PLC and Scada workshop attended
- Online Poster Making Contest- Participation at university
- Awarded for second runner in the volleyball competition
- Academic Performer award, Chandigarh university
- Coursera And NPTEL Course Done:-** Micro/ smart grid Protection Course, Introduction to self-driving car, Introduction of solar cell.

LANGUAGES

English / Hindi / Gujarati, I will take IELTS exam.

INTERESTS

Travelling | Reading | Sports | Listening Music