

# SUKHDARSHAN VINAYAK

Electronics Engineer

MOBILE  
9079977037

EMAIL:  
parasvinayak045@gmail.com

GitHub  
[sukhdarshanvinayak](#)

LINKEDIN  
[sukhdarshanvinayak](#)

## Summary

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Highly motivated Electronics Engineer with 2 years of experience in embedded systems design and development. Demonstrates proficiency in schematic and PCB layout, test firmware development, and project team management. Seeking admission to a Master's program in Electronics and Electrical Engineering to deepen expertise and contribute to advancements in the field.

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## WORK EXPERIENCE

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### Electronics Engineer at Alfa Intellitech

(May 2022 - Current)

#### FPS Connect

- ❖ Schematic Capture, PCB design, Test Case creation, Debugging, and Test Firmware development.
- ❖ Used SIM module, ESP32, serial-to-serial convertor, and LDO for better power delivery.
- ❖ Communication protocols used AT Commands, SPI, and UART.
- ❖ Responsible for the quality of the product.

#### STAFFRON

- ❖ Schematic Capture, PCB design, Test Case creation, Debugging, and Test Firmware development.
- ❖ Integrated Camera, RFID, and LCD controlled through ESP32-S3.
- ❖ Used to manage attendance using face recognition and RFID authentication.
- ❖ Communication protocols used I2C, SPI, and UART.

#### BlackHawk

- ❖ Designed to manage the Forklift machine working.
- ❖ Managed a project team of six, focusing on debugging hardware and, firmware, and ensuring product quality.
- ❖ Had to check business logic through manual and unit testing.
- ❖ Equipped with STM32, ESP32, and 9-Axis Gyroscope
- ❖ Communication protocols include RS485, SPI, and UART.

#### Automatic Aquarium Care Taker:

- ❖ It was my first project, and we were a team of two
- ❖ Responsible for developing the Prototype and Final version.
- ❖ Including Schematic, PCB, Test - Case, Debugging, and test firmware.
- ❖ Learned basics of C and C++ for embedded development.
- ❖ Microcontroller Used ESP32-S3, with 8 outputs including a motor controller, a Temperature Sensor, and a Camera.
- ❖ The communication protocol used UART for debugging the hardware and programming the microcontroller.

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## Front End Developer Intern at Newton School

(Aug 2021 - Feb 2022)

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### Facebook Login Page Clone:

- ❖ Learn HTML and CSS.
- ❖ Cloned Facebook login page using HTML and CSS.
- ❖ Published on GIT server.

### Calculator:

- ❖ Learned basics of Javascript
- ❖ Built a web interface for the Calculator.
- ❖ Can do basic math operations like Addition, Subtraction, Multiplying, and dividing.
- ❖ Able to store the calculation history.

### Age Calculator:

- ❖ Built a web interface for the Age Calculator
- ❖ Can calculate the user's age.

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## Cyber Security Intern at Cyberops Infosec LLP

(Jan 2021 - June 2021)

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### Responsibilities:

- ❖ Performing cyber and technical threat analyses.
- ❖ Discovering vulnerabilities in information systems.
- ❖ Analyzing Security System Logs, Security Tools, and Data.
- ❖ Generate VAPT report.

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## Personal PROJECTS

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### iLED Chaser:

- ❖ Developed IoT-based LED controller with motion sensors, utilizing ESP32 for control
- ❖ Developed a MOSFET driver to control different LED Strips using Shift Registers.
- ❖ Deployed on the local server for accessibility and utilized UART for communication.

### iWiFi Switch:

- ❖ Designed IoT ON/OFF switch using ESP32.
- ❖ Efficiently work with 220-240v AC.
- ❖ Deployed on the local server for accessibility and utilized UART for communication

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## Training

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### Seldom India Technologies:

- ❖ Completed industrial training of 35 days on PLC, SCADA, and ACD.
- ❖ Experience real-time monitoring in the industry using PLC and SCADA monitoring units.
- ❖ Learned the basics of PLC and SCADA and working principles.

### Global Institute Of Technology:

- ❖ Completed industrial training of 15 days on Analysis Modeling, Simulation, and Image Processing.
- ❖ Organized by Global Institute Of Technology.
- ❖ Learned the basic use of MATLAB simulation and image processing.

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## Skills

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- ❖ PCB Design
- ❖ Schematic Capture
- ❖ Layout Design
- ❖ Component Selection
- ❖ Gerber Generation
- ❖ SMT and Through hole Soldering
- ❖ Footprint Creation
- ❖ Kicad
- ❖ Altium Designer
- ❖ Embedded Systems Design
- ❖ Problem-Solving Skills
- ❖ Autodesk Fusion360
- ❖ Technical Documentation
- ❖ Project Management

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## INTERESTS

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- ❖ Bike Riding
- ❖ Martial Arts
- ❖ Gaming
- ❖ Technology

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## EDUCATION

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Global Institute Of Technology, Bachelors in Electronics & Communication Engineering 2017 – 2021 CGPA: 6.75	Prince Uch Madhyamik Vidyalaya, Sikar Class XII - PCM (CBSE) 2017 CGPA: 5.47	Blooming Dales International School, Sri Ganganagar Class X (CBSE) 2015 CGPA: 8.00	Skill India, Certified Yoga Trainer (BWS/Q2203) 2021 Percentage: 78%
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## Achievements

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- ❖ 2 Gold Medals at the international level in Karate for India.
- ❖ Won Second prize in Intercollege Tech Fest.
- ❖ Participated in ROBOTICS workshop and made Line Follower car.
- ❖ Participated in the regional-level Quiz competition.
- ❖ Won 1st prize in the Kabaddi team game.
- ❖ Won 2nd prize in the 20KM Cycling Race.
- ❖ Volunteered in Pradhanmantri Swachhta Abhiyan and led a team of 4.
- ❖ Worked as Head of Discipline at college tech-fest.