SINGH JEEVESH .V

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Electronics & Embedded Systems Enthusiast | Hands-on Project Experience in PCB Design & Flight Controllers and UAV

Passionate and self-driven individual with extensive hands-on experience in designing and building multiple electronics projects, including custom PCBs and flight controllers and UAV. Actively participated in RoboFest4.0 and other tech fests in Gandhinagar, showcasing innovative engineering solutions. Skilled in testing and debugging electronic circuits through practical experimentation. Strong foundation in embedded systems, though currently seeking to gain formal industry experience..

PROFESSIONAL EXPERIENCE

Technical LAN Coordinator | CCC+ Examination Center
SILVASSA,D&H
oct *2022 – sep 2023*
• Managed and maintained local area network (LAN) infrastructure at the CCC+ examination center, ensuring smooth operation of all connected systems during high-stakes certification exams
• Provided on-site technical support, troubleshooting network and hardware issues to ensure zero downtime and uninterrupted exam sessions

SSIP Grant Recipient | Team Leader – Robotics & Embedded Systems Project
LD College of Engineering , Ahmedabad
Student Startup and Innovation Policy (SSIP), Government of Gujarat
• Awarded a ₹1,00,000 grant under the SSIP scheme for an innovative robotics and embedded systems project VTOL
• Led a multidisciplinary team of students, overseeing project planning, component sourcing, circuit design, and testing phases

RoboFest 4.0 – Semi-Finalist
Technical & Communication Lead | ₹50,000 Grant Recipient

- Reached the semi-finals in RoboFest Gujarat with a custom-built underwater ROV project.Managed all technical aspects including circuit design, debugging, and system integration. communications, coordinated documentation, team presentations, and liaised with organizers, securing a ₹50,000 grant for project development.

EDUCATION

Gujarat Technological University (GTU) – *Dr. BBA Polytechnic, Karad, Silvassa*
Diploma in Electronics & Communication Engineering
CGPA: 8.9/10

Gujarat Technological University (GTU) – *LD College Of Engineering , Ahmedabad*
Bachelor of Engineering in Electronics & Communication Engineering
Ongoing – Currently in 6th Semester

Gujarat Technological University (GTU) – *LD College Of Engineering , Ahmedabad*
Honor/Minor Degree In Robotics
Ongoing – Currently in 6th Semester

ADDITIONAL SKILLS

- Programming & Embedded Systems: Python, basics of Embedded C, Arduino, Atmega328P, STM32 (Blue Pill & Black Pill), 8085, 8086, 8051 microcontrollers
- Flight Controller Platforms: ArduPilot, INAV, Betaflight
- PCB Design & Simulation Tools: KiCad, Proteus Design Suite
- Certified in **CCC+** (Course on Computer Concepts Plus)
- Verilog and VHDL

PROJECTS

Unmanned Aerial Vehicles (UAVs)

- **VTOL Aircraft (Ongoing)**
  Designing and developing a powerful Vertical Take-Off and Landing (VTOL) UAV for delivery and military applications. Focused on optimizing thrust-to-weight ratio, control algorithms, and endurance.
- **Quadcopter using Arduino**
  Built and tested a fully functional quadcopter using Arduino and custom PID tuning. Implemented manual control and tested flight stability.
- **Custom Flight Controller using STM32 Blackpill (Autonomous via INAV)**
  Designed and programmed a flight controller using STM32 Blackpill, integrated with INAV for autonomous navigation, sensor fusion, and flight stability.
- **Underwater ROV using STM32 & INAV (Semi-Autonomous)**
  Engineered a 6-motor underwater FPV ROV featuring a custom STM32-based flight controller and INAV firmware. Included joystick control, bidirectional ESCs, and self-balancing integration.
- **FPV Drone using Custom Flight Controller & SpeedyBee VTX**
  Built a high-performance FPV drone using a custom STM32-based flight controller integrated with INAV. Enabled real-time video transmission using SpeedyBee VTX and optimized for stable, responsive flight.

Robotics & Embedded Systems

- **Line Follower Robot**
  Developed an efficient line-following robot with IR sensor array and PID-based motor control for smooth path tracking.
- **ESP32-CAM Based Surveillance Car**
  Built a Wi-Fi-controlled surveillance robot with live video streaming using the ESP32-CAM module and web-based interface.
- **6-Channel Transmitter & Receiver using Arduino Nano & NRF24L01**
  Created a custom remote control system with 6-channel communication using Arduino Nano and NRF24 modules for wireless control.
- **Smart Car Parking System using Arduino Uno**
  Designed a prototype smart parking system using ultrasonic sensors and Arduino Uno to detect vehicle presence and manage slot availability.

Power Electronics Projects

- **Regulated Power Supply (230V AC to 5V/12V DC)**
  Designed and built a compact regulated power supply unit with transformer, rectifier, voltage regulator, and protection circuitry for dual output (5V and 12V).

LinkedIn Profile & Featured Projects
LinkedIn Profile: linkedin.com/in/singh-jeevesh-831b2a262