Nilesh Gaikwad

EMBEDDED DEVELOPER,
ELECTRONICS &
TELECOMMUNICATION ENGINEER

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📍 Life Republic, Marunji, Dist.
Pune, Maharashtra, 411057

TECHNICAL SKILLS

C & Embedded C
●●●●●●●●○○

C++ Programming
●●●●●●●○○○

DSA
●●●●●○○○○

ARM7 (LPC2129/48)
●●●●●●●○○○

UART, I2C & SPI Protocols
●●●●●●●○○○

Linux
●●●●○○○○○

Keil IDE, Proteus & EasyEDA
●●●●●●●○○○

PCB Designing
●●●●●●○○○
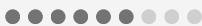
CERTIFICATIONS

Data Analyst Internship - 2024

View Certificate

Internal Hackathon - 2022

View Certificate

Python Progrmming - 2022

View Certificate

CAREER OBJECTIVE

Seeking for a role within a fast growing and developing organization to apply technical expertise in designing and electronic & embedded systems, contributing to the success of a dynamic organization.

EDUCATION

Bachelors in Electronics & Telecommunication Engineering   **2020 - 2023**

Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati.

Aggregate Percentage - 75.72 %   View Marksheets

Diploma   **2017 - 2020**

Government Polytechnic Amravati

Percentage - 78.75 %   View Marksheet

SSC (10th)   **2016 - 2017**

Shri. Marwadi Rajasthan Vidyaly, Latur

Percentage - 68.20 %   View Marksheet

RECENT DEVELOPMENT

Embedded System Internship (R&D)   Oct 2024 - Jan 2025

INDKARTA Research & Development, Pune

Cloud Application Development (AWS)   Mar-June 2024

Generation India & Vinsys IT Services, Pune

COMPANY PROJECTS - INDKARTA R&D

Automatic Powder Diluter using ESP32 (IOT)   **2024**

- Designed and Developed an Automatic Powder Diluter, Developed a solution utilizing the ESP32 WROOM module to automate the dilution process with precision and efficiency.
- Dual-Core Architecture: Leveraged both cores of the ESP32 for parallel processing, optimizing task execution and system performance.
- Powder Mixing Automation: Automated the mixing process with precise timing and control, reducing human intervention and improving operational consistency.
- Real-Time Monitoring: Integrated sensors to provide real-time feedback on powder falling status, ensuring all things are perfect.
- User-Friendly Interface: Developed an intuitive interface for monitoring and controlling the system, enhancing usability and operational ease.
- IOT Support: Designed the system with Real time updating data on cloud storage as well control using IOT.
- Scalable and Modular: Built the solution to accommodate additional functionalities such as IOT enabled remote control or integration with larger automation systems.

Skills Utilized: ESP32, Multi Core Processing, C++, GSM & GPRS (IOT), System Design & Research.

SKILLS

- Communication
- Team Player
- Creativity

HOBBIES & INTERESTS

- Watching Movies
- Making Electronics Projects
- Learning new things
- Interested in Programming
- Interested in working with Hardware and Software Both.

PROFILES

Linkedin -
www.linkedin.com/in/nilesh-gaikwad-b04690254

GitHub -
https://github.com/nileshdgaikwad8805

HackerRank -
https://www.hackerrank.com/nileshdgaikwad81

ACADEMIC PROJECTS

Border Petrolling Robot using RaspberryPI   **2022 - 2023**

- Designed and implemented a border patrolling robot using Raspberry Pi and PiCAM, capable of autonomous navigation along a predefined path.
- Live Camera Surveillance: Real-time video feed for continuous monitoring using the PiCAM.
- GPS Tracking: Accurate location data for the rover's position, enabling precise movement along predefined routes.
- Obstacle Avoidance: Integrated sensors allow the robot to detect and avoid obstacles in real-time, ensuring smooth operation in challenging terrains.
- Human Detection: Advanced image processing algorithms used to detect human presence, enhancing security capabilities for border surveillance..
- Modular and Scalable Design: The system is built with flexibility, allowing for additional sensors or functionalities to be incorporated as needed.

Skills Utilized: Raspberry PI, Python, Image Processing, Sensors.

EXTRACURRICULAR ACTIVITIES

- Participated in the Smart India Hackathon
- Participated in Techno Ignite Comepetition.
- Participated in the Robokart Comepetition.

PERSONAL DETAILS

DOB   - 21 Jan 2002
Gender   - Male
Father Name - Dileep Gaikwad
Languages   - English, Marathi, Hindi