

Abhishek Narsing Gangane

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Profile: A final-year engineering student of electronics and telecommunications looking for an entry-level position as an **embedded software engineer**. I do best in fast-paced, collaborative work environments that are team-focused and have the capacity to adapt to new technologies with ease.

Projects:

- **Smart Vending Machine project at Neat Wind industries, Ahmednagar, Mh** **JAN - Present**
We replaced the spring mechanism and coin-based mechanism with the rack and pinion mechanism, digital payment gateway, and dynamic QRcode generation on the touch-screen display of the ESP32 with a GUI crafted using a light and versatile graphics library.
 - **[AIA foundation for smart manufacturing summer internship at IIT Delhi](#)** **MAY 2023**
During a summer internship in AR technology, I worked on a model-target-based guide for the Responsible Welding Coordinator. The software used is Unity Engine, Vuforia, and Google Firebase.
 - **[Home automation gardening system \[IoT Internship\]](#)** **APR - MAY 2023**
With the help of Picasimlab and the Blynk IoT application, simulation of gardening systems can happen. On the Blynk app, we can check the operation and ON/OFF of the gardening modules.
 - **[Tic-Tac-Toe game using Arduino](#)** **DEC 2022**
The X-O game played between a player and computer with tricky moves incorporates the use of a TFT-touch display and an Arduino UNO with I2C protocol interfacing.
 - **[Automatic certificate generation using matlab](#)** **NOV 2022**
A MATLAB script with the integration of input Excel file data and a draft certificate PNG file will provide your certificate with a QR code for authentication or validation of the certificate.
 - **[Global positioning system tracking device](#)** **MAY 2022**
GPS modules track the latitude and longitude values of location and send this to the Thingspeak cloud with the wifi connectivity of esp32, and from the cloud, with the help of the Google Maps API, maps 90% accurate location on the Google Maps application.
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Tools: Proteus, Arduino IDE, Keil uVision, Stm32cube Ide, Git, Kicad (Beginner)

Skills: embedded C, C++, Matlab, Python, testing and debugging, RTOS

Education:

- **B.Tech Electronics and Telecommunications** **2020 - Present**
KIT's College of Engineering, Kolhapur, Maharashtra, India
Professional-electives: OS, Information theory and coding, computer networks.
Open-electives: Python, software systems.
Volunteer: 40th GISFI meeting jointly with 6G International conference held in April 2023
 - **Higher secondary school (Intermediate)** **2018 - 2020**
Dayanand Science College, Latur
Elective: Computer science
 - **Secondary school** **2018**
Jawahar Navodaya Vidyalaya, Latur
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Achievements and Awards:

- **[Electrovert techwiz competition finalist](#)** **OCT 2022**
A technical event called Electrovert techwiz Electronics took place at Sangli's Walchand Engineering College. Our group took part in the expert competition. We finished the competition in fifth place out of about twenty groups representing various colleges in western Maharashtra.
- **[Project-based learning Matlab Programming competition finalist](#)** **NOV 2022**
Automatic certificate generation using matlab script This project placed fourth out of 32 teams in our college after being nominated for a project-based learning competition at the college level.