

# BHAVIN VAGHELA

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Some valuable clients from Fortune500, The University of Bristol, PGA of America and their experience and valuable words with me,

➤ "Bhavin is such a fantastic developer to work with. He was professional and handled all modifications seamlessly. He communicated with me all through the project and also immersed himself in the problem by providing unique solutions to the hardware and software development challenges faced during the project. I give my highest level of recommendation."

➤ "I would happily employ Bhavin again. He is extremely efficient works very fast and is a very good communicator. The product was delivered on time and worked perfectly. I definitely will be using Bhavin again in the future. Thank you very much for your hard work."

I am an Embedded Professional with experience in multiple domains. My special expertise in PCB Design, Electronics Hardware and Firmware Development, Mobile Application and Software Testing.

I can provide a TURNKEY SOLUTION of KickStater Product Development - Just present the idea and I provide you with a working prototype so that you can go for manufacturing and explore your business to make the world better place.

--- WHAT I DO and WHERE I CAN ADD VALUES IN YOUR BUSINESS ---

## ➤ Hardware Development :

- Nordic Semiconductor nRF51/nRF52/nRF91
- ESP32/ESP8266/Arduino
- ST series STM32/STM8
- ARM-based controller
- Texas Instrument MSP and CC series
- Raspberry Pi Zero/Raspberry Pi Zero W/Raspberry Pi 3/Raspberry Pi B+/Orange Pi
- Atmel AVR Atmega32/Atmega8/Xmega, special purpose AVR, Arduino Mega and Tiny
- PIC32/PIC24/PIC18/PIC17
- Silicon Labs ERF32, EM351/EM357, EFM32 and C8051
- NXP
- LoRaWAN
- ThunderBoard Sense2
- PLC

## ➤ Firmware/Software Development :

- Embedded C and C++
- Embedded Linux
- Python
- QT Embedded Development Platform

- Android/iOS App Development
- Web Development

- FreeRTOS
- AWS IoT
- MQTT
- Custom MQTT
- HTTP
- Firebase
- Google Cloud IoT
- NodeJs
- Node-Red

➤ Embedded Development Tools/IDE :

- Atmel Studio
- Simplicity Studio
- Arduino IDE
- Raspbian
- MPLAB
- Code Composer Studio
- Helium IoT Development Tool
- Particle.io
- Platformio
- Android Studio
- Xcode
- Keil

➤ PCB Design Tool :

- EagleCAD
- KiCAD
- Altium
- OrCAD

➤ Different Interface :

- Soil Moisture Sensor
- Ultrasonic Sensor
- Infrared Sensor
- Temperature Sensor
- Humidity Sensor
- Water Level Sensor
- Pressure Sensor
- Piezo Sensor
- Magnetic Sensor
- Accelerometer
- Gyroscope
- Capacitive Touch Sensor
- Microphone

- Mp3 Audio Playback

- HeartRate Sensor

- Blood pressure sensor

- GSM/GPS Modules

- Display

➤ Communication protocols :

- UART (RS232, RS485)

- CAN

- SPI

- I2C

- RFID

- NFC

- Bluetooth

- WiFi

- Ethernet

- USB

- ZigBee

- MQTT

- LoRaWAN

- Mongoose OS

- Google Home

- Amazon Alexa

➤ Specialize with IoT Technology :

- Smart Home Automation Development

- Tracking Device Development

- Medical Device Development

- Fibaro Home Automation

- Control4 Home Automation

- OBD Hardware and App Development

- ACR Software Development

- OBD Hardware Firmware Mobile App

➤ Project Management Tools :

- Trello

- Asana

- Jira

- GIT

If you are expecting such words as "High Quality", "Cost-Effective Prototype", "In-Time Delivery" I would be the right person. Hire me immediately.

I will be happy to AMAZE you with my work.

Best Regards,  
Bhavin Vaghela