

B. Gowtham,

2/139, Karupparayan Kovil Thottam,
Thudiyalur Main Road, Idigarai (P.O),
Coimbatore - 641022

Email ID: gowthambalu15@gmail.com

Mobile No: +919600722934



Career Profile

- 2+ years of experience in the areas of microcontroller programming and hardware testing.
- Expertise in AVR, Arduino and PIC Microcontroller programming.
- Comprehensive knowledge of the development concepts and applications of embedded systems design.
- Creative problem solver, Good team player and a self motivated person.

Professional Experience

Role: Embedded Developer
Excel Electronics, Coimbatore

June 2014 – Present

- Designing and developing embedded applications for microcontrollers.
- Working on Embedded development platform VB, Atmega328P and PIC16F877A.
- Working on different Analog and Digital Sensors like PIR, Ultrasonic, Humidity, Optical, Color sensors, Pressure sensor.

Project Work- Internship
Salzer electronics ltd, Coimbatore

July 2013 – March 2014

- Designing and developing embedded applications for microcontrollers.
- Working on Embedded development platform PIC16F877A, VB.
- Working on J-Type thermocouple

Projects

Role : Hardware and Software Developer.

- **Moisture Meter**

Environment : Windows XP, Atmega328P, Humidity Sensor.

- Measure the moisture content of the cotton, woollen and polyester material.
- The moisture level values of various materials will be stored to the EEPROM memory and it can be uploaded to excel sheet through USB.

- **Automatic TFO Plastic Cop Segregation**

Environment : Windows XP, Atmega328P, Colour Sensor (E3ZM-V61), Actuator.

- This Product uses Atmega328P interfaced with colour sensor to segregate the cops from the Auto-Coner machine in the Textile Industry.

- **Online Pressure Monitoring**

Environment : Linux debian, Atmega 328P, Analogue pressure sensor, Ethernet module,VB.

- This Product uses Atmega328P interfaced with Analogue pressure sensor to balance the Pressure of the Auto-Coner machine in the Textile Industry.
- Additional Windows application that receives and store the data via DHCP (TCP/IP) Protocol.

- **Internet of Things (IoT)**

Environment : Linux debian, Atmega 328P, Ethernet module.

- This project is used to control various home applications via PC Browser and Mobile.
- Data transfer happens via DHCP (TCP/IP) protocol and HTML5.

- **Automatic Fuse Replacement System**

Environment : Linux debian, Atmega 328P, GSM, Robotic ARM.

- Automatic replacing of the fuse in the Area transformer, raising an alert on circuit break and also shuts down the voltage for Human Safety.

- **Fire Indication**

Environment : Linux debian, Atmega 328P, Xbee S2 pro.

- This Product uses Atmega328P interfaced with Xbee S2 pro that raises an alarm of fire at the Cotton warehouse.

- **GSM Based Bore-well Control**

Environment : Linux debian, Atmega 328P, GSM SIM 900a, Hall Effect sensor.

- This Product uses Atmega328P interfaced with GSM that is used to Turn ON and OFF the bore well and Send the data to user.

- **Blow-room Control**

Environment : Linux debian, Atmega 328P, MPX10DP.

- This Product uses Atmega328P interfaced with MPX10DP, to maintain the vacuum pressure.

- **GSM Based Water Level Controller**

Environment : Linux debian, Atmega 328P, GSM SIM 900a, Float switch.

- Automatic monitoring of the water level and switching off the motor by using float switch sensor. The user can also switch on the motor with Remote access by sending a message to this system.

- **Wireless Sensor Data Monitoring**

Environment : Linux debian, Arduino uno, Xbee S2 pro, DHT21-Humidity sensor, HC-05.

- Temperature and Humidity data are sent to the mobile application and will also notify on reaching the threshold value. Arduino uno is used as CPU and HC-05 Bluetooth module for mobile communication.

Educational Qualifications

Degree	Institution	University/Medium	Percentage
B.E. ECE (2014)	INFO Institute of Engineering	Anna University	6.59 CGPA
Diploma in ECE(2011)	Sri Ranganathar Institute Of Polytechnic College	DOTTE	83.42
S.S.L.C (2008)	Swathanthra Higher Secondary School	State Board	60.4

Skills & Expertise

Operating System : GNU/Linux and Windows
Languages : Embedded C, C++ and Basic VB.
Compilers/Editors : Eclipse, MPLAB, Arduino and Eagle PCB designing.

Personal Details

- Name : B. Gowtham
- Father's Name : A. Balasubramanian
- Marital status : Single
- Date of Birth : 15th November 1992

- Gender : Male
- Languages Known : Tamil and English - Read, Write and Speak

Profile Links

- LinkedIn : <https://in.linkedin.com/in/gowthambalu>
- About. Me : https://about.me/gowtham_balu

Declaration

I hereby declare that all the above furnished information and particulars are true to the best of my knowledge and belief.

Place:

Signature: