B. Gowtham,

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Thudiyalur Mail Road, Idigari (P.O),

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Career Profile

- Gaining valuable knowledge with 1 year 9 months of experience in the areas of microcontroller programming.
- Gaining valuable knowledge with 8 moths of experience in the area of Testing department .
- Expertise in AVR, Arduino and PIC Microcontroller programming.
- Comprehensive knowledge of the development concepts and applications of embedded systems design.
- Creative problem solver, productive listener and the ability to work in team or individually.

Professional Experience

Embedded Developer   **June 2014 – Present**
Excel Electronics, Coimbatore

- Working on software developer, 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 (Temperature rise test)   **July 2013 – March 2014**
Salzer electronics ltd, Coimbatore

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

Projects

- **Moisture Meter**
  Role   : Software Developer and Hardware Designer.
  Environment   : Windows XP, Atmega328P, Humidity Sensor.
  ○ Measure the moisture content of the cotton, woollen and polyester material.
  ○ The moisture value of the various material will be store to the EEPROM memory and it can be uploaded to excel sheet through USB.

- **Automatic Cops Segregation**

  Role   : Software Developer and Hardware Designer.
  Environment   : Windows XP, Atmega328P, Colour Sensor(E3ZM-V61), Actuator.
  ○ This Product uses Atmega328P interfaced with colour sensor, that is used for the cops segregation process from the Auto-coner machine in the Textile Industry.

- **Online Pressure Monitoring**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, Analogue pressure sensor, Ethernet module,VB.
  ○ This Product uses Atmega328P interfaced with Analogue pressure sensor, that is used for the Pressure balancing from the Auto-coner machine in the Textile Industry

- ○ Additional software Windows application to create using VB to sore the receiving data to database
- ○ To received the data via DHCP(TCP/IP) protocol

- **Internet of Things (IoT)**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, Ethernet module.
  - ○ This project is used to control the home application via PC Browser and Mobile.
  - ○ Send and Received the data via DHCP(TCP/IP) protocol and HTML5.

- **Automatic Fuse Replacement System**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, GSM, Robotic ARM.
  - ○ This project is used to Replace the fuse in the Area transformer and Transmission line break alert and circuit breakers shutdown the voltage for Human Safety.

- **Fire Indication**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, Xbee S2 pro.
  - ○ This Product uses Atmega328P interfaced with Xbee S2 pro, that is used for the Fire indication from the Cotton warehouse in the Textile Industry

- **GSM Based Bore-well Control**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, GSM SIM 900a, Hall effect sensor.
  - ○ This Product uses Atmega328P interfaced with GSM, that is used for the Turn ON and Turn OFF the bore well, Send the current rating data to user.

- **Blow-room Control**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, MPX10DP.
  - ○ This Product uses Atmega328P interfaced with MPX10DP, to maintain the vacuum pressure.

- **Gsm Based Water Level Controller**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Atmega 328P, GSM SIM 900a, Float switch.
  - ○ In this project we monitor the water level of the tank by using float switch sensor. If water tank is full, it switch off the motor automatically and it will send a message to the user as the tank is full. The user can also switch on the motor even he is not in the home through sending a message to this system.

- **Wireless Sensor Data Monitoring**

  Role   : Software Developer and Hardware Designer.
  Environment   : Linux debian, Arduino uno, Xbee S2 pro, DHT21-Humudity sensor, HC-05.
  - ○ The Wireless sensor data monitoring project provides temperature and humidity sensor data's which is placed in home or industry areas. Here we use Arduino uno as CPU and HC-05 Bluetooth module for mobile communication. This project is mainly based on monitor the temperature and humidity status around the industrial area.. The sensor values are viewed in mobile using android application and also glow the LED when sensor data's reach threshold value.

Educational Qualifications

Degree	Institution	University/Medium	Percentage
B.E. ECE (2014)	INFO Institute of	Anna University	6.59 CGPA

	Engineering		
Diploma in ECE(2011)	Sri Ranganathar Institute Of Polytechnic College	DOTE	83.42
S.S.L.C (2008)	Swathanthra Higher Secondary School	State Board	60.4

Skills & Expertise

Operating System   : GNU/Linux, Windows XP, Windows 7, Windows 8 &8.1.

Programming Language   : 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, B. Gowtham do hereby declare that all the above furnished information and particulars are true to be the best of my knowledge and belief.

Place:

Signature: