

CURRICULUM VITAE

B. Madhavi

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CAREER OBJECTIVE:

To acquire a responsible and challenging position in a dynamic Organization offering substantive career growth, professional grooming and vigorous exposure. I possess a keen interest in teaching and learning along with qualities of leadership and hard work.

WORK EXPERIENCE:

- Working as a STEaM Facilitator (Robotics teacher) at **Chrysalis High School** for 2 years.
- Worked as a Project Engineer at **Saitroniks Electronic Equipment** for one year.

▪ PROFESSIONAL EXPERIENCE:

- Designed and delivered workshops on embedded programming using C, Arduino and Micro:bit.
- Developed curriculum modules for teaching foundational coding principles through Scratch and Code.org platforms.
- Led hands-on activities integrating LEGO robotics kits and Arduino, enabling students to build and program autonomous systems.
- Taught real-world embedded systems applications, such as robotics using microcontrollers.
- Mentored students to build hardware-software integrated projects, such as temperature monitoring systems and robotic arms.

PROJECT DETAILS:

Project Title: MICROCONTROLLER BASED AIR CONDITIONING SYSTEM FOR ROOF MOUNTED PACKAGE UNIT FOR LHB COACHES

- **Coding Language:** Embedded C
- **Role:** Project Member

Description: The main aim of the project to control the ac system of railway coaches automatically without any manual interference. In this the temperature sensors & humidity sensors will detect the temperature & humidity of the coach and send the information to the controller depending upon the temperature variations the controller will enable and disable the corresponding equipment.

SCHOLASTIC RECORD:

- Master of technology in **VLSI & EMBEDDED SYSTEMS** from AVN Institute of Engineering & Technology,affiliated to Jawaharlal Nehru Technological University with an Aggregate of 73.5% in 2015.
- Bachelor of Technology in **Electronics & Communication Engineering** from RVR college of Engineering & Technology, affiliated to Jawaharlal Nehru Technological University

with an Aggregate of 67.26% in 2011.

- Higher secondary in M.P.C from Ideal Junior College, Hyderabad, recognized by Board of Intermediate Education with an Aggregate of 65.7% in 2007.
- 10th Standard from Shantiniketan Model High School, Hyderabad, recognized by Board of Secondary Education with an Aggregate of 78.3% in 2005.

ACADEMIC PROJECT PROFILE:-

Coding Language: Embedded C

Project: Detecting the conditions of remote areas through data acquisition system using ZIGBEE

- **Coding Language:** Embedded C.
- **Team :** 3 members

Description: The main aim of this project is to detect the conditions of remote areas like temperature, co gas etc. In this project at the transmitter side the sensors the temperature and co gas values will be determined. The sensor values are given to the MCP3202 which is used as ADC. The ADC values are given to microcontroller (AT89S52) from this the values are displayed on LCD as well as to ZigBee in between microcontroller and ZigBee MAX232 is connected which is used as the voltage controller. At the receiver part also ZigBee will be there to receive the transmitter values here also one MAX232 is connected for the voltage conversion the ZigBee values are given to microcontroller. From the microcontroller the temperature and co gas values are displayed on the LCD screen.

CERTIFIED EMBEDDED SYSTEMS DEVELOPER from VECTOR INDIA& Bangalore. (Duration: 6 months):-

- **MICRO CONTROLLERS :**
Type : 8051 (AT89C51)
- **IDE :**
Type : KEIL
- **PROGRAMMING LANGUAGES:**
Language : C,C++, Assembly language, Embedded- C

HANDS ON EXPERIENCE:

- C programming using GCC.
- Programming and hardware interfacing of keypad to microcontroller.
- Programming and hardware interfacing of display unit (LCD) to microcontroller.

PERSONAL PROFILE

Full Name	:	Bommagani Madhavi
Age	:	35
Date of Birth	:	23 August 1989
Father's Name	:	Bommagani Sathaiah Goud
Permanent Address	:	Flat.No :403,Evershine Vrindavan Apartment, Gunjur,Varthur Kodi,Bangalore-560087
Gender	:	Female
Nationality	:	Indian
Languages Known	:	English, Hindi ,Telugu and Kannada
Phone number	:	+918123398397

DECLARATION

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

PLACE: Bangalore

(B. MADHAVI)