

BASAVARAJ

BE (ECE)

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Executive Summary: -

- > Having 1 year 4 months of experience in Embedded System development (Research & Development Engineer).
 - > Having good experience in development application using Embedded C.
 - > Good exposure on Device driver development and worked with various protocol such as I2C, SPI, UART, RS485, CAN, TCP/IP and USB.
 - > Good Exposure on Micro-controllers **STM32, Atmega8266, ESP32, PIC32.**
 - > Tools Used:- **Stm32Cube Ide, Visual Studio, Platform io, MP Lab Ide and Arduino IDE.**
 - > Work during various phases Design, Coding, Testing and Defect fixing.
 - > Having experience of Handling the program schedule and delivery.
 - > Experience in Board Bring-up.
 - > Experience in Debug and fix the software issue.
 - > Strong Experience with firmware, interfacing hardware peripherals and device driver's development.
 - > **Hardware Debuggers Used:** ST-LINK, PICKIT-3, TTL to USB Type C Connector.
 - > **Languages:** Embedded C/C++, Data Structures.
 - > **OS:** Linux, Windows.

Employment History: -

Employer Name	Designation	Duration
Noki Technologies pvt ltd	Research & Development Engineer.	11-Sep-2023 Currently working

Educational Details: -

Degree	College	University	Year	Grade
BE (ECE)	Vivekananda Institute of Technology, Bangalore - 560074	Visvesvaraya Technological University (VTU)	2018 to 2022	7.10 CGPA
12th	Babu Biradar PU Science college Bidar	—	2018	69%
SSLC	Raveendra High School Bidar	—	2016	86%

ADDITIONAL QUALIFICATION

- 6Months Training on “Embedded Systems” From Vector India Bangalore. 28/08/22 to 26/02/23
- 4Weeks Internship on “Embedded Systems” From VV Technologies. 30/08/21 to 30/09/21
- 4Weeks Internship on “Internet of Things (IOT)” From Techno fly Solutions. 08/11/21 to 08/12/21

> PROJECTS:-

1) extraction chromatography (Xtract):

Mar-2023 to Dec-2024

> Description :-

- Xtract is automated radionuclide extraction chromatography (EXC) system dedicated to radionuclide separation from environmental and decommissioning samples. The system performs the EXC steps such as column conditioning, sample loading, washing and elution steps without manual work or user supervision.
- I worked on Atmega8266, PWM, UART, TMC2209, IR Sensor, Limit switch, Nextion Display.
- The device will be controlled via a LAN connection, which is linked to an OpenWRT router.

Role : Research & Development Engineer.
Responsibilities : Design and Development.
Customer Interaction.
Module and integration level Testing.
Board : Atmega8266
OS : Windows.
Tool : Platform IO, Arduino Ide.
Languages : Embedded C.

2) Cyclotron Stack Monitoring System:

Jan-2024 to Aug -2024

> Description :-

- Developed a fully functional monitoring system that enhances the safety and efficiency of cyclotron operations, Ensures accurate real-time monitoring of critical parameters such as air flow and radiation levels, Improved the reliability and maintainability of the cyclotron stack through robust data acquisition and analysis.
- The device will be controlled via a LAN connection, which is linked to an OpenWRT router.

- I Worked on Atmega8266, MODBUS, I2C Communication Protocol, Geiger-muller counter and Beam Current Monitor and Analyzer (BMCA)

Responsibilities : Software Design and Development, Preparation of Guidelines, Test plan, Debugging and Flashing.

Tool : Visual Studio, Arduino Ide.

OS : Windows.

Languages : Embedded C.

Hardware, Debugger & Protocols Used = USB Type C Connector, RS485, UART, I2C.

3) Xspectrum:

Aug -2024 to Ongoing

Description :-

- This device completely based on digital signal Processing (DSP), Beam Current Monitor and Analyzer (BMCA).
- Currently I am working on PIC32 and FPGA (spartan-6).
- Tool : MPLAB IDE, MPLAB IPE, Xilinx ISE 14.7.

PERSONAL DETAILS

Father Name : Vilas.

Mother Name : Vijayalakshmi.

Date of Birth : 02/08/2000

Nationality : Indian, Hindu.

Sex : Male.

Languages : English, Kannada, Hindi.

Hobbies : Playing cricket, Surfing Through Internet, Photography Enthusiast, Solving Rubik's cube in challenging minutes.

DECLARATION

I hereby declare that the details mentioned above are true to the knowledge.

Place: Hyderabad.

BASAVARAJ