

Venkatesan D
Lead Engineer

Email: venkatd.snr@gmail.com
Mobile: +919962060125

OBJECTIVE

To make use of my knowledge and technical skills in an efficient way which would contribute to achieving organizations goals faster and help in further development of the organizations.

JOB PROFILE

- Having 7+ years of total experience
- 4 years in Embedded Domain.
- UEFI/BIOS firmware development for Intel Power on Project and IPU Project which includes various intel server platforms.
- Roles involve Bug Fixing, Feature development, Documentation and Unit Testing

TECHNICAL SKILLS

Operating system	: Windows,
Languages	: Assembly, C
Standards/Specifications	: SMBIOS, ACPI
Domain	: BIOS/UEFI firmware development
Interfaces	: Visual Studio
Flash Tools & Methodologies	: DediProg
Other Tools	: R/W Utility, C/SCT tools, FWTS tool
and Coverity tool, beyond compare, Putty, Gitbash, GitHub, Rational ClearCase software, win merge software	
Debugging Tools	: ITP
Operating Tools	: Microsoft Office Word, Microsoft Office PowerPoint, and Microsoft Excel.
Communication Protocol	: I2C, RS232, SPI.
Peripherals	: ADC, PWM.
IDE'S	: MPLAB IDE, Arduino ide,
Flash Programming Tools	: Pickit3
Microcontrollers	: STM32F407, Arduino,
PIC16F877A.Nodemcu	

PROJECT EXPERIENCE

Project Experience 1 [2021 September – July 2024]

Project: BIOS/UEFI firmware development and EDK2

Platform: CatLow, Alder Lake, Tatlow BIOS Sysdebug, Mehlow, Purely

Company: Hcltech private limited

Client: Intel

Role: Bios developer

Responsibility:

- Worked on hardware support and setting & getting NV ram variables and locked access to prevent unauthorized usage.
- Tested Hsd, Understand the code flow and added fix in multiple c files.
- Worked on fixed, dynamic, and patchable Pcd's.
- Worked on Smbios and Acpi errors.

Project Experience 2 [2020 March- 2021 March]

Project: The marine feature - hoistable car deck interface

Platform: Embedded firmware development

Company: ITC infotech private limited

Client: Kone elevator Private limited

Role: Embedded c developer

Responsibility:

- New module porting and support -Bug fixing
- Debugging the issues reported by Testing team
- Participate in code review and peer-peer review

Project Experience 3 [2018 November- 2020 February]

Project: Vehicle Tracking System Through GPS-GSM Modems:

Company: DLK Technologies private limited

Role: Embedded c developer Trainee

Responsibility:

- Work experience in developing firmware for 8/32-bit micro controllers.
- Practical work experience in interfacing low peripheral such as GPIO, SPI, I2C, serial/USART, interrupts with Stm32f407 microcontroller.
- Good knowledge in reading schematics and datasheets

Project Experience 4 [2017 February – 2018 January]

Institute: Emertxe institute

Role: Trainee

- Studied Embedded development course
- Good knowledge on Embedded c
- Good knowledge on 8 bits microcontrollers

Project Experience 5 [2016 January – 2017 January]

Company: Avalon technologies private limited

Role: Hardware testing engineer

- Worked on to functional testing on Welding boards such as voltages, frequency of signal etc.
- Worked on soldering Smt and THT Hardware components

EDUCATIONAL DETAILS

Examination	Year of Passing	College/University	Marks Obtained
B.E – Electronics and Communication Engineering	2015	Kumarasamy college Karur	74%
DIPLOMA- Electrical and Electronics Communication	2012	AVC Polytechnic College Mayiladuthurai	69%
S.S.L.C	2009	Government Boys	80%

PERSONAL DETAILS

Gender	Male
DOB	15-05-1993
Marital Status	Single
Languages Known	English & Tamil
Current Location	Thiruvarur

