

CHETAN KUMAR H

PERSONAL

Name

Chetan Kumar H

Address

#108/2, SriVari Shelters, Gurudatta Layout,
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Phone number

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Email

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Date of birth

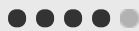
28-06-1989

INTERESTS

- Cycling
- Reading Books
- Trekking

LANGUAGES

English



Hindi



Kannada



Telugu



WORK EXPERIENCE

Module Lead

Mistral Solutions, Bangalore

Aug 2021 - Present

- Working with the Client Infineon.
- Developing a Product Docking system for LENOVO.
- Working on the Board Bringup, BSP.
- Understanding the datasheets of the Modules and their protocol support.
- Dock Management Controller (DMC) FW development for Type-C Docking Stations & Monitors.
- Firmware Engineer for new silicon HX3PD.
- Firmware development of USB Power Delivery (USBPD) and Type-C Port Controllers solution for Type-C Dongles, dock and Monitors.

Senior Engineer

L & T Technologies Pvt Ltd, Mysore

Apr 2020 - Aug 2021

- Experience in Embedded C and C++ programming languages.
- Having Experience in Design and Development of C++ application.
- Experience in writing shell scripting for building and deploying the embedded software in target devices.
- Board Support Packages (BSP) development for I.MX8M board using Yocto Custom Linux build system.
- Linux Kernel configuration and Device Tree(DTB) file updated as part BSP development. • Worked on ARM Cortex M4 based Microcontroller Firmware development.
- Working knowledge on Embedded serial communication protocols like I2C, UART.
- Involved in complete Software Development Life Cycle: Preparing system software requirement specification, detailed design, protocol verification and system testing.
- Worked on Proof of Concept (POC) of cost effective indirect measurement of Non-Invasive Blood Pressure using ECG and SPO2 data.
- Experience in creating Firmware Architecture and Detailed design documents for Embedded Medical devices.
- Experience in Firmware code review of safety critical firmware components.
- Followed the guidelines mentioned in IEC62304 while developing the Medical device software.
- Knowledge on using the Git for version control system.

Design Engineer

Sushma Industries Pvt Ltd, Bangalore

Jun 2016 - Mar 2020

Sushma Industries has more than 70 different products that deliver the highest degree of reliability and accuracy in measurement of torque, force for automotive industry. Researching and developing innovative ideas for new product development and production systems. Expertised in design and development of embedded systems, porting, customizing embedded Linux, board bring up, BSP. Worked on more than 30 projects which includes ARM micro controllers, carrier board design based on imx6, imx7, AM3358 with Board Support Package, custom embedded Linux and custom root file systems. Working on different types of SPM as per customer requirements.

- Schematic capture and hardware digital design
- Worked on initial hardware bring up, PCB assembly and soldering
- Ported BSP, embedded Linux and root file system
- Ported QT 4.8 libraries for imx7
- GPIO isoator daughter board
- Boot time optimization

Calibration Engineer

Jun 2014 - May 2016

Sushma Industries Calibration Center, Bangalore

Worked as a Calibration Engineer.

A highly efficient, hardworking and talented design engineer with 5+ years of experience on concept development, New Product design and development. Experienced in all design stages of a product including market research, design development, prototyping and PCB assembly. Possessing a good team spirit, deadline oriented and having the ability to produce detailed technical specification from client requirements.

EDUCATION AND QUALIFICATIONS

Bachelor of Engineering in Instrumentation and Technology Jun 2007 - Jul 2011

Dayanand Sagar College of Engineering, Bangalore

SKILLS

Embedded C	● ● ● ● ●
I2c	● ● ● ● ●
SPI	● ● ● ● ●
UART	● ● ● ● ●
RS232	● ● ● ● ●
Bluetooth Serial	● ● ● ● ●
Custom Linux Kernel	● ● ● ● ●
BSP	● ● ● ● ●
Protocol Device Drivers	● ● ● ● ●
Debugging	● ● ● ● ●
Root File System	● ● ● ● ●
Cross Compile	● ● ● ● ●
Qt Framework	● ● ● ● ●
Yocto	● ● ● ● ●
ARM	● ● ● ● ●
QT	● ● ● ● ●

COURSES

Certification of C and Unix Sep 2011 - Dec 2012
Uttara Computers

Certification on Building Embedded Linux System Jun 2018 - Oct 2018
SysPlay eLearning Academy For You

Certification on Mastering RTOS Apr 2019 - Jun 2019
Udemy online courses

Certification on Introduction to Real-Time Operating System Jan 2019 - Mar 2019
Udemy online Courses

ACHIEVEMENTS

Best Team Player award at SIPL

Awarded Best Team Player award at SIPL for Successful Completion of Team work on Time.

Best Customer Support engineer award at SIPL.

Awarded Customer Support engineer award at SIPL for developing Custom Build Projects in record time