

# JAY KOTHARI

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## EXPERIENCE

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**Wipro** (<https://www.wipro.com/>)

*Senior Software Engineer*

Pune, Maharashtra, India

March 2021 - Present

- Telematics-platform bringup and operating system services

**Visteon Corporation** (<https://www.visteon.com/>)

*Embedded software engineer*

Pune, Maharashtra, India

July 2019 - Feb 2021

- Smart core is single ECU that combines instrument cluster, a head-up display (HUD) and Visteon's infotainment platform into a single domain controller. Worked on Smart core platform bringup.

**Matrix Comsec** (<https://www.matrixcomsec.com/>)

*Senior Software Engineer*

Vadodara, Gujarat, India

Sep 2015 - July 2021

- Network video recorders(NVR) are product to record a video stream from CCTV camera over Ethernet. Design and development NVR.

**SLTIET** (<https://www.sltiet.edu.in/>)

*ad-hoc Lecturer EC department*

Rajkot, Gujarat, India

June 2012 - June-2013

## EDUCATION

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**GTU PG School (Gujarat Technological University(GTU), Ahmadabad, Gujarat)**

M.E. VLSI & Embedded Systems *GPA: 8.1*

June-2013 - June-2015

**Atmiya** (<https://atmiyauni.ac.in/> , **Gujarat Technological University(GTU)**)

B.E. Electronics and Communication Engineering *GPA: 8.2*

June-2008 - June-2012

## SKILLS

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Language:	c, c++
OS:	Good understanding of operating system implementations.
Linux:	Linux System Programming, Linux Kernel Programming, Linux Kernel Debugging skill.
Multi-Threading:	Multi-Threaded application design and development.
RTOS:	Worked with Xenomai Real Time driver development(RTDM).
QNX:	Worked on QNX.
git:	Understanding of software development workflow
Embedded linux:	Porting Linux on custom boards. Experience with Yocto
ARM:	Worked on ARMv7 architecture
Video streaming:	Streaming Video/Audio over RTP using control Protocol RTSP. Raw TCP streaming.

## PROJECTS

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**Telematics-platform** *c/c++/yocto/embedded linux/git*

Platform: Quectel module(AG35) and renesas rh850, Its a telematics control unit(TCU) for which our team is responsible for BSP.

- Write Persistence Manager using sqlite3 database.
- Design and develop loader for micro-controller.

**Smart Core.** *c/android linux kernel/git/hypervisor/QNX*

URL : <https://www.visteon.com/newsroom/delivering-digital-integrated-cockpit-solution-smartcore/>

Platform : Qualcomm 6155/6145 processor. Quectel module and renesas rh850 on single platform.

OS:QNX as type-2 hypervisor and Android running as guest OS.

Worked in OS/BSP team for porting and bringing up peripherals.

- Bring-up UART and i2c peripherals(like temperature sensor).
- Bring-up TFT display.
- Bring-up touch panel.
- Early display bring-up in QNX.

- Manage various product variant on the single code base.
- Integrate the Qualcomm SDK versions.

**Network Video Recorder** *c/c++/linux system programming/network programming/*

URL : <https://www.matrixvideosurveillance.com/network-video-recorder.html>

Platform: HiSilicon 3536 processor(ARM Cortex A17) and TI DM8168(ARM Cortex A8).

- Implementation of recording modules in Network Video Recorder Product.
- Implement RTSP Client and RTSP Server using a live555 library.
- Design and implement a Camera initiation module in product.
- Design and implement 4 synchronous playbacks
- Implement decode and display module for Hi3536 processor.
- Design and implement a hardware test application for product in Qt.
- Porting embedded Linux on HI3536 processor.

**Implementatation real time linux driver.** *c/linux device driver*

Code : [https://github.com/JayKothari/i2c\\_rtdm](https://github.com/JayKothari/i2c_rtdm)

Article : <https://www.opensourceforu.com/2015/10/the-xenomai-project-a-linux-based-rtos/>

Platform : Beagle Bone Black with the Cortex A8 processor with 1GHz Frequency Code.

Description : Design, Implement and Test of Xenomai Real Time drivers(RTDM) for the I2C and UART processor controller on Beagle Bone Black. This is was part of the Thesis in Master of engineering.

**PERSONAL PROFILE**

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Date of Birth:	4th Dec 1989
Gender:	Male.
Language(s):	English, Hindi and Gujarati.
Permanent Address:	1/7 jairaj plot, Palace Road, Rajkot-360001,Gujarat,India.
Nationality:	INDIAN.

**DECLARATION**

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I declare that the above information furnished by me is true to the best of my knowledge and will present an original document whenever asked for.