

CURRICULUM VITAE

Pratik Arun Farkase

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EDUCATIONAL QUALIFICATION

QUALIFICATION	SPECIALIZATION	INSTITUTE	YEAR	CGPA/%
PG Diploma	Embedded Systems Design	CDAC-ACTS, Pune	2016-2017	62 %
B.E.	Electronics Engineering	Yeshwantrao Chavan College Of Engineering (YCCE), Nagpur	2012-2016	6.89
HSC	Electronics	Mohota College Of Science, Nagpur	2012	69.83 %
SSC	-	Bhavan's Bhagwandas Purohit Vidya Mandir, Nagpur	2010	9.2

KEY PROJECTS

ARM BASED ADVANCED DRIVER ASSISTANCE SYSTEM | CDAC-ACTS (Dec 2016-Jan 2017)

- Developed **Lane Departure Warning System** prototype alerting the driver as the vehicle moves out of lane
Tools/Software/Language: - Raspberry Pi, OpenCV, C++

IoT BASED HEARTBEAT MONITORING SYSTEM (Jan 2017)

- Designed a heartbeat monitoring system with live heartbeats measured using a **pulse sensor**
- Displayed Electrocardiogram waves, current beats per minute, and inter-beat interval on **OLED** display
- Information was broadcasted to and remotely monitored on open source IoT platform called **Cayenne**
Tools/Software/Language: - NodeMcu, OLED, Arduino Programming Language

HUMAN DETECTION FOR ROBOTIC URBAN SEARCH AND RESCUE | YCCE (Aug 2015-April 2016)

- Built a two-wheel drive embedded electronic bot with ultrasonic sensor, temperature sensor, GPS module
- Exact coordinates of humans stuck under debris given through NMEA string in Latitude and Longitude
- Presented a paper on the same at 'SPANDAN 2016', a national-level paper presentation event held at YCCE
Tools/Software/Language: - Embedded C, MPLab, XC8 compiler, Microcontrollers

DIGITAL LCD THERMOMETER | YCCE (Aug 2014-Nov 2014)

- Built a simple, robust thermometer using **ATMEGA 16**, **LM35** sensor giving temperature readings on LCD
Tools/Software/Language: - Embedded C, ATMEL studio 6.0, Microcontrollers

TECHNICAL SKILLS

- Embedded C**, Data Structures
- ARM V7-TDMI (LPC2148)**, **Cortex M3 (LPC1768)**, **Cortex M4 (STM32F4 Discovery Board)**, and **AVR Programming in C**
- Programming experience with Serial Communication Protocols (I2C, SPI, UART, CAN) in C**
- Linux Kernel Basics**, **Kernel modules**, **OS Basics**, **Device Driver Basics**
- Networking skills:* - **Knowledge of LAN, WAN, Ipv4, Ipv6, TCP/ IP protocol, DNS, DHCP, MQTT, COAP**
- PCB designing** using **CADSOFT EAGLE** tool
- Arduino Programming**
- Applications:* - **Code composer studio, LTSpice, Tera Term, Eclipse, MATLAB, Wireshark, Keil µvision**

EXTRA-CURRICULAR ACTIVITIES

- Assembled an electronic bot from scrap material and raced it against competitors, finishing 5th among 10 participants at '*Junkyard Wars*', an inter-college event held at YCCE
- Avid rock music listener and pursuing guitar as a hobby, Technology enthusiast, Hardcore gamer

PERSONAL DETAILS

Father's Name	Arun Shaligram Farkase
Moher's Name	Sunita Arun Farkase
Nationality	Indian
Gender	Male
Marital Status	Single
Languages Known	English, Hindi, Marathi