HARDIK A GOHIL

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CAREER OBJECTIVE:

To become a successful professional in the field of Embedded Technology and to work in an innovative and competitive world. I have 1 year of Expertise in Embedded Linux

EXPERIENCE:

Embedded developer: Emotion Squared technologies (Emo2 Inc) June '12-July'13
Project: Emo2 Surface computing Linux version

- Building Linux Development system from scratch.
- Build Webkit and Created Browser based to two different libraries (EFL and clutter).
- Libraries Worked: EFL, Clutter, Glib, Cogl, Xlib, Dbus, XML, JSON, Gstreamer, etc.
- Compilation and bug fixing of Graphical Libraries for Linux/Windows X86.
- Linux Kernel Customization, Boot time reduction, Minimal OS development.
- Cross-Compilation For ARM

Project: Decloaking Chamber™ NxGen
Responsibility:

- Developed device firmware upgrade for product.
- Added new temperature sensor to existing design
- Developed GUI for graphical display

Internship: Centre for development of advanced computing (CDAC), Pune
Sep'11-June'12

- Developed firmware for LPC 2148 using different peripherals
- Understood Linux Kernel Architecture, proficient in reading kernel header files undergone into various kernel layers via header files.
- Practically implemented OS services such as IPC in User space.
- Developed **Pseudo Char Driver**, **Serial device driver** compiled as dynamic module, successfully tested form PC-PC transmission and reception for **Linux version 2.6.36**
- Implemented **Test System call file, Proc file, Sys file** complied as dynamic module and tested successfully for **Linux Version 2.6.36**
- Cross-compiled Linux for ARM using tool chain, developed kernel image, MLO boot loader, root file system (RFS) and then successfully ported to **Beagle-Board XM**.
- Customized boot loader such that booting of board is done automatically without boot commands.

TECHNICAL SKILLS:

Architecture	**:**	ARM-7, 8051, AVR-32 bit.
Programming Languages	**:**	Embedded C, Proficient in Linux Architecture, Practical Knowledge of Device Driver programming, RTOS concepts
OS porting experience	**:**	Ported Embedded Linux system on Beagle-Xm board
Development Tools	**:**	keil IDE, AVR Studio, Simulink.
Linux Distros	**:**	Opensuse,Ubuntu
Protocols	**:**	Knowledge of RS-232, SPI, USB.

EDUCATIONAL PROFILE:

Qualification	University	Graduation	Score
M.tech (Embedded system design)	Vel-Tech university	2012	7.5 Cgpa
B.tech (Electrical and electronics engg)	Jyothismathi institute of tech and science	2010	60 %
Intermediate	Vignan Vidyalayam	2006	91.2 %

M.TECH PROJECT:

Title: Digital Hand Gloves for Sign Language Recognition

Description: we developed a digital hand gloves for sign language recognition, which is used for communication between hearing impaired and normal person. The data is transmitted via ZIGBEE to PC, the serial driver acquires the data and the algorithm running displays the gesture. Test conducted with 10 persons gave 96% accuracy in result.

Organization: Centre for development of advanced computing **CDAC-Pune R & D Project**

Platform: ARM-7, Linux, Embedded C.

Role: Algorithm design on Linux, ADC Firmware. **Duration:** 4 month

EXTRA CURRICULAR ACTIVITIES:

- Designed 8051 development board from scratch using dotted circuit board.
- Interfaced LED, Switch, LCD, 7-segment, UART, ADC.
- Got third prize in science exhibition at school level

PERSONAL PROFILE

Name	: Hardik A Gohil.
Date of Birth	: 1st Nov, 1988.
Address	: H-no: 1-1-28, Sirpur Kaghaznagar, Andhra Pradesh.
Languages	: Hindi, Sanskrit,Gujrathi,Telugu,English.

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