Charmi Suchak

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CAREER OBJECTIVE

A well organized, efficient and enthusiastic Embedded Engineer looking to undertake a challenging new career opportunity where I can utilize my relevant qualifications and embedded experience.

CAREER SUMMARY

- Professional with 1.5 year of experience in Embedded.
- Experience working with Wireless and Networking.
- Experience working in IOT domain.
- Expertise in ZigBee Technology.
- Experience working with Kinomajs.
- Ability of working in team.

ACADEMIC QUALIFICATIONS

B. Tech Electronics and Communication Engineering (2015)

C.S.P.I.T, CHARUSAT

CGPA 8.81

TECHNICAL SKILLS

Technologies	**Software**	Wireless & Networking, ZigBee, IOT, BSP Development, Buildroot, Kinomajs
	Hardware	Compex WPJ344,Compex WPJ558,Marvell IAP140, Marvell PXA1088,Texas CC2531
Languages		C, Linux Shell Scripting
Operating System		Windows, Linux, Openwrt

PROFESSIONAL EXPERIENCE

- August 2015 – Till Date
  Volansys Technologies, Associate Engineer

Project Title	IOTBU SUPPORT & BSP Development
Project Description	The main aim of client is the BSP Development and customer support of their hardware boards PXA1088 & IAP140.
Key Feature	Hardware Acceleration Support, Porting Kinomajs Software Stack, Protocols Support: Bluetooth, Wi-Fi, RNDIS, Wi-Fi DHCPV6 Client/Server Support, Different Wi-Fi Drivers Support, Text Overlay, Gstreamer plugin development using openGL Library.
Tools	Eclipse, Jira, Git

Project Title	VCONNECT STACK
Project Description	VConnect stack is Volansys IP, which is the implementation of Apple's Homekit Accessory Protocol (HAP) specification for Internet of Things (IOT).
Key Feature	Bonjour support for Apple Device Discovery, IoT gateway services (Scan Device, Add Device, Authenticate Device, Join Device, Remove Device), Control Bulb & Door using Zigbee.
Tools	HAT(Homekit Accessory Tester), JIRA, Ecllipse

Project Title	Wi-Fi POC 802.11 n/ac based WiFi Segregation to be deployed in a Mesh Network
Project Description	The project was to develop Wireless segregation on Wireless devices to be used in deployment of a Mesh network. Our customer's aim was to provide their end customers the flexibility to share the available bandwidth on devices with the guest clients. The guest clients can register via the captive portal to access the internet.
Key Feature	Develop a 802.11s customized frame, customized buildroot with different packages, configure wireless Access point and Station on different boards, Throughput testing, set IP Tables rules, setup a captive portal.
Tools	Ecllipse, LUCI, JIRA, Git

Project Title	IOT Gateway Development
Project Description	This project was to design and implement Internet-Of-Things gateway framework to add Home Automation support in it.
Key Feature	Home Automation Profile support, Gateway communication through zigBee, Control Zig-bee bulb from gateway.
Tools	Eclipse, IAR Embedded Workbench, X-CTU, Z-Tool, Packet Sniffer

- Personal Details:
  - Date of Birth : 22nd Dec 1993
  - Address : Block 404, Sunderam tower, Shyamal Crossroad Satellite
  - Hobby : Listening to Music, Dancing, Playing Basketball, Reading