**ANKIT K. SIDDHAPURA**

**[Bechlor of Engineering in Electronics & Communication]**

**Objective :**I would like to endeavor in an environment where I could make significant contribution to the organization while enhancing my skill further.To utilize my technical skills for achieving the target and developing the best performance in the organization. I would like to implement my innovative ideas, skills and creativity for accomplishing the projects.

**Academic Profile:**

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| --- | --- | --- | --- | --- |
| **Session** | **College/University** | **Description** | **Percentage** | **Year** |
| Bachelor of Engineering | Government Engineering college-Bhuj.(G.T.U). | Electronics & Communication. | 7.35 CGPA | 2013 |
| H.S.C | Lions Highersecondary School.Manavadar.  (Gujarat). | Higher Secondary Education.(Science) | 55 % | 2009 |
| S.S.C | Lions Highersecondary School.Manavadar.  (Gujarat). | Secondary Education. | 76 % | 2007 |

**Academic project: Working Model of Energy saver with security system.**  
**Description**: An embedded system with dual functionality as Energy saver as well as Security system. User can use it in any one mode at a time. Passive infrared Sensor which sense human body interaction in sensor range, sensor gives signal to turn On/Off equipments according to motion detection. In security mode it buzzes alarm if any human body interaction detected in sensing range, that can be stopped buzzing by only entering security password.

**Controller:** Atmel  
**Language**: Embedded C  
**IDE**: Kiel µVision  
**Role**: Project related information documentation & programming.

**Technical skills:**

* Languages : C, C++,Qt(C++),Embedded C,Assembly language,python,CORE JAVA.
* Linux System programming, Socket programming, Data Structure in C, Multithreading.
* Framework : Qt
* Networking: TCP/IP, UDP and Socket Programming
* Controllers : 8051, Atmel.
* Networking: TCP/IP, UDP and Socket Programming
* Development Tools: Make Utility, GDB Debugger, Keil uVision3,EclipseIDE, Visual Studio.
* Protocol:UART (8051),I2C,SPI,UART,HLS,MPEG-DASH.
* Configuration Tools: SVN, Perforce (p4v), VPN.
* Problem Tracking Tool:Jira.
* Operating System: Linux, windows

**Training:**

1. **Five Weeks Training on Embedded system & Robotics from BRiCS During JULY 2012**.  
   Introduced to Advance embedded system and applications like ATMega MCU interfacing of LCD, LED, Sensors, RFID, GSM, GPS.
2. **Six months of extensive class room training on Advanced Embedded system at Vector India Private Ltd., Hyderabad from April 2014 to Oct 2014.**

**Minor Projects:**

1. Own **Pre-processor** directives in C, implemented own pre-process directives.

Macro replacement and header file inclusion.

1. Own **make** command in Linux using C, Make utility.
2. Own **ls** command in Linux using C.

**Major Project:**

1. Read data from temperature sensor and display on LCD using **I2C** protocol.  
   Using 8051 microcontroller.
2. Read and Write data to slave device as external memory EEPROM from master 8051 microcontroller using **SPI** protocol.

**Professional Experience: Embedded Software Engineer  
1.9 years of experience in ValueLabs, Headquarter in HITECH City, Hyderabad, India from 6th Oct-2013 to present**

* **Experience working in an Agile/SCRUM project team**
* **Knowledge on SDLC life cycle.**

**PROJECT 1: Research & Development   
Developed Set Top Box Application user interface on RDK.**The Reference Design Kit (RDK) is a pre-integrated software bundle that provides a common framework for powering customer-premises equipment (CPE) from TV service providers, including set-top boxes, gateways, and converged devices. Developed Set Top Box applications like LiveTV, EPG, Video On Demand (VOD), Multiscreen, Video Surveillance.

**Client:** Internal R&D project  
**Language used:** C,Qt (C++)  
**Framework** : Qt

**OS**:Linux(Ubuntu 12.04 32 bit)

**Team Strength :** 3.

**Duration:** I started working on Oct-2014 to May 2015.

**Responsibilities:**

* Involved in sharing innovative ideas for such applications and implementation on RDK.
* Developing and bug fixing related to application.
* Created rich UI and enhanced look and feel features of applications.
* Done R&D to implement WebRTC like application on RDK.
* Attending weekly status review meeting with team.

**PROJECT 2: SeaChange Mediamerge, Branding & UE**

Seachange is a well-known name in set top box and broadcasting industry for providing Video On Demand service in USA. SeaChange VOD allows a set top box to navigate and play cable operator Video on Demand (VOD) content.  
 **Module#1 : MediaMerge**  
For VOD application need BFA(blended file assets) it is video stream, which provides background and layout for different VOD application screens. Using configuration tools generating BFA which contains background, images, poster boards, and barker videos.

**Client:** Seachange International, USA.

**Language used:** C++.  
**IDE**: VisualStudio  
**OS**:Windows  
**Team Strength :** 2. **Duration:** I started working on June-2015 to Oct 2015. **Responsibilities:**

* Code changes and bug fixing, debugging code for bug analysis.
* Generation of BFA files using configuration tool.
* Layout compilation and debugging.
* Attending scrum meeting every day with internal onshore team.
* Attending weekly status review meeting with client.

**Module#2:Branding & UE**  
Branding & UE is for design and development of Set top box Video on demand application. Application contains navigation screens as menu, search and subscription screens.Design and development of look and feel for various sea change client VOD applications.

**Language used:** C,VODScript.  
**Client:** Seachange International, USA.  
**OS**:Windows  
**Team Strength :** 6.  
**Duration:** I started working on Nov-2015 to Mar 2016.

**Responsibilities:**

* Involved in developing and Bug Fixing related to design issues, navigation issue, streaming, trick play issue as well as subscription time consideration etc.
* Code compilation and burn over set top box remotely. Unit testing and bug fixing.
* Involved in reproducing the bugs through Sling box addressed by the client.
* Maintenance & support for addressing the issues reported from field.
* Attending scrum meeting every day with internal onshore team.
* Attending weekly status review meeting with client.

**PROJECT 3:Digital Watermarking for Set Top Box Multimedia**

Digital Asset Management, one of digital asset management technique is digital watermarking. A digital watermark is a pattern of bits inserted into a digital image, audio or video file that identifies the files copyright information (author, rights, etc.).There are two types of watermarking overlay and embedding. In embedding, inserting pattern of bits into actual content. While in overlay method actual content is not going to modify, just watermark (Image, Text) overlaying on content. This is used for pre-released content. Set dynamic API for content(ImageVideo,PDF).Used RESTful Web service to consume dynamic web APIs.

**Skill set used:** Qt(C++),QML,GStreamer API,RESTful web service.  
**Tool**: UMLet.  
**Framework** : Qt  
**OS**:Linux(Ubuntu).  
**Team Strength :** 2.  
**Duration:** I started working on Mar-2015 to Present.  
**Responsibilities:**

* Involved in understanding the project requirements and development.
* Involved in preparation of Design Document, prepared flow and class diagram using UMLet tool.
* Development of overlay method of watermarking for video and Image content.
* Use of static API settings which displays overlay text over content (Image,Video).
* Consume dynamic API settings from server and use for overlay method.

**Extra-Curricular Activities and Hobbies:**

Playing sports, Art, Reading Books.

**Soft Skill :**

* Leadership: I am very initiative and have confidence on my capabilities.
* Elegant Team Player: To achieve a target, the coordinate among the team is very important.
* Dedication/hardworking: I believe in proper planning before initiating anything.

**Personal Details:**

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| **Full Name** | Ankit Siddhapura |
| **Gender** | Male |
| **Nationality** | Indian |
| **Marital Status** | Single |
| **Languages Known** | English, Hindi, Gujarati |
| **Email Id** | ankitsiddhapura41@gmail.com |
| **Date Of Birth** | 14th Jan1992 |
| **Mobile** | 7799644967 |

Declaration:

I hereby declare that the above-mentioned information is correct to the best of my knowledge and belief. I bear all the responsibility for the correctness of the above-mentioned particulars.

**DATE:**

**PLACE: HYDERABAD ANKIT SIDDHAPURA**