Drupad Joshi

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Summary:

- A competent post graduate from vector India, Bangalore with more than 2.5 years of experience with convincing expertise on C, Embedded C and Data structures with the cross platform Linux Environment
- Fair Knowledge in operating system concepts
- Strong debugging and problem solving skills in run-time issues
- · Basic knowledge in Python, Shell scripting and Makefiles
- · Hands on working experience in Yocto and Petalinux build system
- · Proficient in using development tools like Github and Jira

Work Experience (2.5+ years)

Softnautics | Designation: Associate Software Engineer [2017 March - 2019 April]

1) Project: Xilinx VCU(Video Codec unit)

Description:

- Xilinx Inc.is an American technology company, primarily a supplier of programmable logic devices
- This Project aims to integrate Display ports, Video codec, GPU drivers for Zcu106 Xilinx release board which includes features enhancement, Bug fixing, and functional testing

Hardware Platforms	Xilinx MPSoC: ZCU102, ZCU106, ZCU104, ZCU102
Operating System	Embedded Linux, Ubuntu, Windows
Programmin g Languages	C, C++(basic), Shell Scripts, python(basic)

Roles and Responsibilities:

- · Bug fixing in C in their existing code and file the Jira ticket
- Integrate a build in Petalinux or Yocto on daily basis and boot with Jtag and SD card
- Modification in petalinux build packages like adding QT application support and compile it for target board
- Functional level testing in RDI framework before delivering the code
- Part of CI team for adding new patches in master branch
- · Debugging crash and major issues introduced during testing
- · Automated the test cases of DP, GPU, VCU in shell scrpting
- Conduct weekly meeting to report status of work on Skype

Description:

- VCU (Video codec unit) is a module, should be there in all production board of Xilinx
- Frequently hang issues found while Encoding and Decoding the raw video on board in a long run and over-night run
- Observing a huge memory leak with every new add on feature is a serious issue for customers. Every time to debug the whole code with Valgrind and Gdb tools is a time consuming process
- The idea is to develop a memory leak detector or a garbage detector at first stage of the project which tracks the memory allocated by malloc at run-time
- The future goal is to free the allocated memory automatically after work gets finished

Roles and Responsibilities:

- · Understand the Code for future enhancements
- Integrating a library with Application which catches the memory leaks

Academics

- Diploma in Electronics and communication from Gujarat Technological university in the year of 2013 with overall 6.3 CGPA
- B.tech in Electronics and communications from Gujarat Technological university in the year of 2016 with overall 6.7 CGPA
- 6 months Post-graduation course from Vector india Bangalore in the year of 2017

Personal Information:

Name: Drupad Joshi
DOB: 23rd March, 1994

• Languages: English, Hindi, Gujarati

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I hereby declare that all the information given above is true to my knowledge