**CM Naveen Kumar Reddy**

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**Summary-** A Software Engineer with **3 years** of experience in embedded software development with good understanding of **C language, Linux Kernel internals & Device Driver, Communication Protocols like I2C, USB** with exposure to the Software Development Life Cycle.

**Highlights**

* Experience in Device Driver Implementation
* Experience in communication protocols -USB and I2C.
* Hands on experience in Kernel compilation, customizing Linux kernel for a specific embedded application using tools like build root and cross-compiling applications for a specific board/device.
* Good working knowledge of C Programming and Data Structures.

**Technical Skills**

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| --- | --- |
| Operating Systems | Linux |
| Hardware Platform | ARM based boards (Qualcomm Snapdragon820) |
| Languages | C and Andvanced C Programming, |
| Protocols | USB , I2C. |
| Debuggers | GDB, basic Knowledge on JTAG – Trace32 |
| Tools | GIT |

**Education Qualification**

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| **Year** | **Degree** | **Institution** | **Percentage/CGPA** | **Full Time/Part Time** |
| 2015 | B.TECH | JNTUA Anathapur | 68.5% | Full time. |

**Experience Details**

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| **Organization** | **Position** | **Duration** |
| Global Edge Software Limited Bangalore. | Software Engineer | 08/17 to Till |
| Inowell Technologies Pvt Ltd | Associate Software Engineer | 07/15 to 08/17 |

**Project Profile**

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| **Project 1** | 1. **USB Camera** |
| Company | Global Edge Software Ltd. |
| Description | Capturing the USB video data and storing into file in kernel space. |
| Role | * Gathering requirements * planning the functional flow according to gathered information * Preparing feature documentation. * Developed the UVC driver to support the capturing video data and storing into file in the driver. * Removing the V4L2 driver. * Used kernel thread and locking mechanism between the video streaming from camera and storing into file. |
| Environment | Linux |

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| **Project 2** | 1. **Android Smart Phone** |
| Company | Inowell Technologies Pvt Ltd. |
| Description | Android smart phones using Android operating system with different chip sets from QUALCOMM. Porting device drivers on new chip set and OS up gradation. |
| Role | * Gathering requirements * planning the functional flow according to gathered information * Preparing feature documentation * Porting the Touch driver. |
| Environment | Linux |