**RAMENDRA**

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Software Design Engineer with 4+ years of experience in research, design, development, integration, testing and performance optimization of embedded software applications and computer software systems with knowledge of Machine Learning Algorithms.

**SUMMARY**

· Strong knowledge of various OS platforms including QNX, LINUX and proprietary Embedded OS.  
· 4 years of experience in C/C++.  
· 2 years of experience in Perl programming.  
· 2 year of experience in designing on chip message based framework for multiprocessor environment.  
· Adept in managing multiple projects with strong analytical and organizational skills.

· 1 year of experience in incubating a business idea and presenting it to the VC.

· 2 year of experience in researching machine learning algorithms involving graphical models.

**TECHNICAL SKILLS**

**Programming:** C, C++, Basic Java, OPENCL

**Scripting:** Advanced Perl Scripting, Matlab, Octave, Python.

**Operating Systems:** Windows 9x/2000/NT/XP/Vista, Linux (Ubuntu), QNX.

**Tools:** MS Office (Word, Excel and PowerPoint), Microsoft Visual Studio.

**Platforms:** ARM9, ARM11, Snapdragon.

**Version Control:** Perforce, Knowledge of Git/Gerrit.

**Big Data**: Hadoop, Mahout, HDFS, Map Reduce.

**Languages:** English, Hindi.

**PROFESSIONAL EXPERIENCE**

**Software Engineer**

**Qualcomm Inc., Boulder, CO April 08 - Present**

* Developed a Tool for generating the remote procedure call stub codes for on chip multi processor communication.
* Designed QMI (Qualcomm Messaging Interface) Common Service Interface that enables various onchip modules to expose there service to clients on other processors.
* Designed QMI Common Client Interface that enables various onchip modules to talk to services present on the chip (involving various processors).
* Designed Core Server Framework that facilitates quick implementation of an onchip service.
* Proposed a Business Idea in Qualcomm Innovation Network that qualified to the final rounds.
* Worked on various projects to support multiprocessor framework for various device manufacturers including RIM, HTC, SAM SUNG.
* Designed and Implemented a Shared Memory Linux Kernel Driver for on chip distributed system.

**Software Engineer December 04 - June 06**

**Tata Elxsi Ltd, Bangalore, India**

* Developed and tested PVR (Personal Video Recorder) drivers for a Set Top Box.
* Wrote Modules to test Driver API’s, the development was done on C, based on Linux platform.
* Worked with team of five people to develop the software manual for the system.
* Implemented the DVB (Digital Video Broadcast) Subtitle on the ALC (Asia Low Cost) Set Top Box, designed for Asian market.

**ACADEMIC/INNOVATION PROJECTS**

* Proposed a business idea on Brain User Interface for mobile devices to the Qualcomm Innovation Network. This project involved attending a boot camp to come up with a business proposal with team members from across the globe. The idea was presented with prototypes that involved Machine learning algorithms to interpret the Brain waves.
* Designed Time Series Prediction Algorithm for Independent Research Course involving a hybrid model that incorporates the concepts of Neural Network and Hidden Markov Model.
* Designed and Implemented an Intelligent Financial Web Robot for Information Retrieval graduate course work.
* Presented the paper, “Crop Prediction using Neural Network and Fuzzy Logic”, at International Conference on Systematic, Cybernetics and Informatics, Jan 2005, Hyderabad, India.

**GRADUATE COURSEWORK**

Machine Learning, Micro Kernel Architecture, Information Retrieval, Natural Language Processing, Computer Vision, Machine Learning Seminar, Wireless networks, Randomized Algorithms and Algorithms.

# EDUCATION

**Master of Science in Computer Science**

Johns Hopkins University, Baltimore, MD GPA: 3.48, **Aug 06 – Dec 07**

**Bachelor of Engineering in Computer Science & Engineering**

Vishveswaraiah Technological University First Class with Distinction, **Aug 2000 – May 2004**

**Higher National Diploma in Computing**

Edexcel Enterprise, UK **2001**