OPEN POSITIONS (Uurmi)

1) **Designation: Engineer/Sr. Engineer- Signal Processing:**
   - No. of Positions Open - 3
   - Experience – 2-6years
   - Qualification Required - B.Tech/M.Tech in the field of communication and signal processing with more than 70% aggregate.

**Experience/Skill set:**

- B.Tech/M.Tech in the field of communication and signal processing with more than 70% aggregate.
- 2-6+ years’ experience in the development of baseband communication modules and algorithm development.
- Good understanding of principles of baseband, pass band systems, digital modulations and *signal processing algorithms for wireless communication*.
- Expertise in Development of baseband communication modules using Matlab, Fixed point C.
- Having knowledge in Verilog RTL is advantageous.
- Good communication skills.

**Job Description:**

- Responsible for designing new communication algorithm techniques and verification.
- Design and development of signal processing algorithms for communication systems in Mat lab, simulation and performance benchmarking.
- Converting floating point signal processing algorithm to fixed point C algorithms.
- Closely working with implementation team to implement and improve the designed algorithms.
- Supporting Verilog RTL design of signal processing algorithm and porting onto FPGA.
- Responsible for following CMMI process documentation and other project documentation.
- Ability to mentor team members.
2) **Designation – Engineer/Senior Engineer– WiFi MAC**  
   **No of Positions- 2**  
   **Experience 2- 6 years**  
   **Qualification Required - B.Tech/M.Tech**

**Skill Set:**
- At least 3 years of experience on MAC layer
- Experience on WiFi MAC is strongly desired, though experience on other MAC layers will be considered.
- Must have strong programming & debugging skills, and knowledge of Linux kernel. Must be strong in C / C++.

**Deep understanding of at least one of these:**
- Existing WiFi (a/b/g/n) MAC drivers, open-source MAC frameworks (in Linux / FreeBSD)
- Source code of hostapd / wpa-supplicant
- Various wireless network topologies
- Knowledge of RTL is a plus, though not essential

**Job Description:**
- Will work on the product development of either 802.11ac (WiFi) or SDR.
- Will be responsible for:
  - MAC layer (LMAC/ UMAC / Both)
  - FreeBSD driver development
  - Modifying Linux MAC framework, Host apd, supplicant
- Integration with PHY and Linux MAC framework
- Interacts with multiple teams – PHY team, other MAC teams of the organization, Linux Kernel team, and RTL team.
- Will participate in protocol conformance certification and involve in customer interactions, as and when required.

There is scope for taking additional responsibilities (career growth), as Uurmi is involved in development of multiple MAC protocols – for product development, or for customer projects.
3) **Designation - Engineer - Image Processing**

- No of positions: 1
- Experience: 0-2 years
- Qualification Required - B.Tech/M.Tech (NIT/IIT)

**Skill set**

- Good in C, C++, Image processing, Computer vision, MATLAB, Opencv

**Job Description**

- Candidate has to develop vision algorithm in areas of computer vision for images and video. Algorithms have application in following areas:
  - Object detection and tracking in aerial video, Surveillance, Consumer electronics

**Profile Description**

- Candidate must have good background in computer vision and image processing. Candidate must have good programming skills like MATLAB, C and Opencv.

**Roles & Responsibilities**

- Candidate will be responsible for developing vision algorithms. This would include designing and building novel visual understanding solutions. Candidate will also participate in development of intellectual property.
- Candidate should be able to drive technical tradeoff decisions at the software design levels

4) **Designation - Senior Firmware Engineer**

- No of positions: 2
- Experience: 4 Years (B.Tech)/6 Years (Diploma)
- Qualification Required - B.Tech- ECE/CS/Diploma with embedded experience of 5 Years.

**Skill Set:**

- Linux Internal, Linux device driver development.

**Job Description:**

- Senior Embedded/firmware engineer with 3-4 years hands on experience in designing and developing linux device drivers.

**Profile Description:**

- Must have hands on experience in linux driver development and programming skills in C.
- Must have experience in working with networking components in Linux.
- Must have hand on experience in porting and optimizing Linux on multiple platforms.
- Should be aggressive and ready for travel.
- Should have good communication skills.
- Should be able to train juniors.
- Should hands on experience in working with different hardware interfaces in an embedded systems like SPI, I2C, I2S, GPMC, PCI etc.

**Roles and Responsibilities:**

- Design, develop and customize new drivers required as per in-house hardware requirement.
- General porting of linux and customization and optimization of linux for in-house embedded platforms.
- Optimization of drivers /Linux for maximum performance.
- Fixing of linux integration issues and general bug fixes.
5) **Designation - GPGPU Engineer**  
No of positions: 2  
Experience: 0-1 years  
Qualification Required - B.Tech/M.Tech

**Skill Set:**

- Strong in C/C++, Linux.
- Experience in CUDA/OpenCL programming.
- Good problem solving skills.
- Preferable: Experience in Computer Vision, Image processing, Hands-on with OpenCV.

**Job Description:**

- Responsible for design and development of GPGPU applications in areas of Computer Vision and Image processing.
- Work will involve working with ARM based embedded platforms.
- Work will involve working on challenging algorithms and porting technologies to GPGPU.
- Also involves publishing white papers and research in innovative domains of Computer vision and Image processing.

**Profile Description:**

- The person should be from ECE/CSE background from premier institute who is good at problem solving skills.
- Should be open to take up new and challenging problems in areas of Computer vision & image processing.
- Need to have a good understanding of the concepts involved in GPGPU programming.
Designation - Engineer-Image processing

No of positions: 3
Experience: 1-3 years
Qualification Required – B.E/B.Tech/M.E/M.Tech

Skill Set:

- C& C++ Programming (proficient)
- QT/any other GUI tools (Middle)
- Image processing (Initial level), OpenCV(Middle)
- Windows & Linux Platforms

Job Description:

- Development of C/C++ codes (stand alone or based on available libraries) for Imaging and vision based applications when algorithms are given.
- Development of GUI in QT or equivalent.
- Code Debugging and troubleshooting.
- Code profiling and optimization.
- Should work in loop with algorithm guys in algorithms level optimization.
- Implementation of Multi-threading to invoke usage of available processor cores and achieve good computational through put.
- Creating windows based or Linux based applications irrespective of platform dependencies.
- Basic knowledge in image processing.
- Involve in testing at various phases of project development.

Profile Description:

- Strong technical skills and experience in software product development using C / C++ in Linux and windows environment.
- Capable to work in cross platforms (Linux, Windows).
- Basic knowledge in Matlab, OpenCV coding.
- Experience with Eclipse, visual studio, QT, VIM and FFMPEG.
- Experience in cross compiling and porting applications on Embedded boards is plus.
- Experience in multithreading implementation.
- Experience in socket programming.
- Experience in software performance analysis and optimization.
- Experience in Developing Desktop native applications.
- Ability to quickly learn new skills and excellent problem solving skills.
- A team player, who is very self-motivated, loves difficult challenges, and is goal driven.
- Good verbal/written communication

Roles and Responsibilities:

- Development of C/C++/VC++ codes when algorithms are given.
- Development of PC based executable both in windows and Linux.
- Code profiling and optimization.
- Involving in verification and validation.
- Good team work and maintain good rapport with algorithm developers and team lead.
- Quick learning the things related to Image processing and computer vision.
- Dive deep into various bottlenecks of the code and provide the best possible solution.
- Maintain high quality standards in the deliverables
7) Designation - Technical Writer  
No of positions: 3  
Experience: 3+ Yrs exp  
Qualification Required – Graduation or Post-Graduation in engineering background  

Skill Set:  
- C/C++ Programming  
- Knowledge of MATLAB and Simulink is advantageous.  
- An experienced writer with a strong technical background.  
- Ability to learn and explain practical engineering and programming concepts and procedures  
- Ability to develop and document creative examples of functionality to help users meet real-world design goals  

Job Description:  
- Write, edit and update technical documentation to produce concise, accurate and quality manuals and release notes  
- Ability to write goal-oriented content that explains concepts and techniques.  
- Create real-world examples that show how our products are applied in science and engineering solutions  
- Participate with the development team in the planning, design and testing.  
- Identify missing topics and fill gaps in existing information  
- Take part in peer reviews of other technical authors work  
- Provide estimates and assist with planning documentation activities  
- Ensure compliance with documentation processes and standards

8) Designation - Quality Engineer  
No of positions: 3  
Experience: 2+ Yrs exp in Quality Engineering  
Qualification Required – Graduation or Post-Graduation in engineering background  

Skill Set:  
- 2-3 years of minimum experience in Quality engineering.  
- Experience with graphics or visualization oriented software packages  
- Knowledge of object oriented design  
- Experience with automated GUI testing tools  
- Experience with Agile frameworks (Scrum, XP)  
- Experience with scripting languages such as Perl, Python  
- Experience with automated test development and scripted testing  
- Experience with Windows and UNIX/ LINUX systems  

Job Description:  
- Design and develop test suites.  
- Develop test plans and test procedures based upon functional and design specifications  
- Develop and execute automated and manual tests with a strong emphasis on test automation  
- Participate in design reviews to provide feedback on software design and testability  
- Analyze and report bugs and qualify bug fixes