Software Infrastructure Engineer
Location: Yokneam

Overview
Mellanox system product engineering group is looking for a Software Infrastructure Engineer. In this role the engineer will develop in-house applications and tools which support Production needs. The position combines understanding of Software and Database architecture to provide stable, efficient and smoothly running production test environments.

Responsibilities
The position requires working closely with Engineering and Operations teams. Looking for a “Hands On” person that is familiar with new technologies and environments.

Qualifications
- B.Sc. in Computer Science
- 3+ years of software development experience in C#/Java
- Hands on with new technologies and environments

Programming experience in one or more of the below is an advantage:
- Database programming
- Windows/Linux OS
- PHP and Perl script
- Mobile applications
- Web pages programming

SW Developer
Location: Yokneam

Overview
Mellanox Technologies is looking for an outstanding graduate to our SW switch Verification team.

As a member of the team, you will be a part of cutting edge Python-based SW project using advanced techniques such as random, white box testing, machine learning and more.

You will gain unique knowledge of how switch operating system works and how large scale networks are constructed.

Qualifications
- B.Sc. in Electrical Engineering, Computer Engineering, Computer Science/Software Engineering
- 0-3 years of experience in SW developing
- Strong and proven experience with object oriented programming languages
- Ability to lead feature development, take full ownership of tasks from A-Z and deliver independently with minimum supervision
- Strong technical abilities, problem solving, design, coding and debugging skills
- Team player with multi-tasking ability and good interpersonal skills

Advantages:
- Experienced in C and Python programming
- Knowledge in Networking protocols
- Knowledge in Scrum methodology

SW Developer
Location: Yokneam

Overview
Mellanox Technologies is looking for SW developer for switch operating system for InfiniBand and Ethernet product line. The SW Developer will be leading the development of cutting edge features in switch management.

Qualifications
- At least 3 years of embedded system C code development
- Working knowledge of embedded OS: Linux, Unix
- Ability to lead feature development
- Experience with real-time embedded operating systems

Education:
- B.Sc. In Computer Science or SW Engineering

Analog CAD Design Automation
Locations: Yokneam | Israel-Tel Aviv

Overview

Mellanox Technologies is looking to expand the team with additional software / computer engineers to maintain, define and develop next generation Computer Aided Design (CAD) tools as well as other engineering applications used during the IC design and development process.

You will focus on developing efficient and harmonized solutions which improve productivity and quality of Analog/Circuit R&D design team work and reduce Time-To-Market.

Responsibilities

- Define, develop and maintain integrated circuit verification tools (ERC/LVS/DRC and more), tools for DRM/HPC environment(s) and general purpose full-stack applications
- Gather requirements from customers for further tools/design flows enhancements from R&D teams
- Integrate Company design flows into enterprise EDA tools like as Cadence Virtuoso, Mentor Calibre and similar
- Train R&D teams on internal tools and design flows
- Document work methodology, design flows and tools

Qualifications

- B.Sc. in Computer Science or Software/Computer Engineering or a related field, or equivalent experience
- Strong programming skills in C++/Java with solid understanding of object-oriented design and patterns
- Experience in shell scripting (bash/csh) and scripting programming languages (Perl/Python/Tcl) in Unix-based environment
- Familiarity with version control systems like SVN, Perforce, CVS, or Git in a Unix/Linux environment
- Experience with the design of solutions implementation based on customer’s requirements
- Effective trouble shooting and problem solving skills
- Personal: Fast ramp up, quick learning, high motivation, independent

Advantages:

- Master’s, Computer Science or Software/Computer Engineering
- Experience with Synchronicity/Perforce version control system
- Hands on Layout and schematic, along with knowledge of Verification tools for DRC, LVS, etc.
- Experience with Cadence SKILL coding

Test Development Engineer

Location: Yokneam

Overview

Mellanox is looking for a skilled Test Development Engineer.

This role will require an understanding of all activities within the product life cycle as well as a combination of hardware understanding and code writing.

The candidate will work as a member of a multidisciplinary and dynamic group of engineers whose main task will be to develop and deploy testing solutions for the company's products.

Responsibilities

- Design detailed testing strategies for functional verification to ensure product quality.
- Develop and execute testing procedures for new and existing products.
- Create technical and design documentation by reviewing requirements and specifications.
- Liaise with internal teams (e.g., developers and product engineers) to identify test requirements.
- Debug of HW & SW failures in interconnect product, Isolate the problem and get to the root cause.

Qualifications

- BA/BSc degree in Electrical engineering / Computer engineering / Software Engineering with some electronics background / knowledge.
- Programming experience in one/more language/Scripting: Perl, Python, Java, etc. strongly desired.
- Basic familiarization with Linux and windows operating systems.
- Ability to drive projects to full execution in time.
- Team player, highly motivated always stay up-to-date with new technologies and test methodologies.
- Excellent verbal and written communication, both in Hebrew and English.

Advantages:

- Programming - C, C++, C#.
- Understanding of high volume manufacturing flows and automation.
- OOP, common design patterns.
- Agile Scrum.
- Experience in usage of standard electrical test equipment which could include: oscilloscopes, spectrum analyzers and signal generators.
- Proven experience in HW testing.

Overview

Mellanox is looking for an excellent SW developer to join the Linux verification team. The person will have to work closely with Mellanox’s driver design, firmware and architecture teams and gain deep understanding of Mellanox’ products and technologies to be able to design and implement user and kernel level applications, which will be used to test and verify Mellanox’ high-end InfiniBand, Ethernet and VPI drivers.

Responsibilities

- Develop a constrained-random verification environment with learning ability using Python
- Identify and write all types of coverage measures for stimulus and corner-cases
- Debug tests with design engineers to deliver high quality functionally
- Close coverage measures to identify verification holes and to show progress towards product development and releases
- Develop a direct User space and Kernel space applications in C

Qualifications

- B.Sc. in computer science or SW/Computer Engineering from a well-recognized university
- 1-6 years of experience in software development, preferably with python and C/ C++
- Strong background in designing, implementing and debugging software
- Enjoys working as part of an engaging, collaborative team
- Strong analytical, debugging and problem solving skills
- Creative, motivated and driven worker

Advantages

- Knowledge in Operation Systems, preferably in Linux
- Knowledge in one or more of the following Networking areas: Ethernet, VLANs, TCP/UDP/IP, QoS, L2-L3 protocols, Infiniband
- Experience in SW Verification or Post-Silicon Validation