Kamal Heib

+(972) 054-9423212

Havradim 13/11, Kiryat Shmona, Israel

kamalheib1@gmail.com

Summary

Areas of expertise include software development and integration, debugging, linux networking, linux kernel device drivers development and verification.

Professional Experience

2018-Present: Senior software engineer for Ethernity Networks

- Develop device models in QEMU to emulate network devices.
- Implement user space library to access PCIe devices using Linux Kernel pci-sysfs - github

2017-Present: Contributor to Linux kernel

- Contribute to the Linux Kernel (mostly to staging drivers) - github

2016-2018: Senior Linux kernel developer for Mellanox Technologies

- Develop new features for the Mellanox Linux Network device drivers.
- Debug and fix issues found within the Mellanox Linux Network device drivers.
- Contribute to the Linux kernel - github

2015-2018: Mellanox partner engineer for Redhat

- Maintaining the Mellanox Linux Network device drivers and user space packages within the RHEL Linux distributions and backport features and bug fixes from upstream to the RHEL kernels.
- Work as a communication hub between the development teams of Redhat and Mellanox.

2015-2016: Linux kernel developer for Mellanox Technologies

- Develop and maintain the Soft-RoCE (ib_rxe) Linux driver which is a software implementation for RDMA over Converged Ethernet - github.

2010-2015: Software verification engineer and team leader for Mellanox Technologies

- Maintain regression tests for testing the Mellanox Linux network device drivers.
- Develop new tests in C and Python to test new features and bug fixes of Mellanox Linux network device drivers.
- leading the Mellanox Ethernet Linux driver software verification team.

Projects

2018 - Libenet - github

- User space library to access PCIe devices using Linux Kernel pci-sysfs

2017 - Senty - github

- Python based project for network sanity testing that support Ethernet, RoCE, Infiniband and IPoIB.

Education

2008-2012: BSc in Computer Science from Tel-Hai College

2003-2003: High School degree in Science from Tuba-Zangaria High school

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Languages

- Arabic - Native language.
- Hebrew - Like native language level.
- English - Very good level.