Re: RESUME points verification

Subject: Re: RESUME points verification From: D Manjunath <dmanju@ee.iitb.ac.in>

Date: 20/08/19, 12:29 AM

To: Anuraag Tummanapally <173079001@iitb.ac.in>

Verified

On 20-Aug-2019, at 12:16 AM, Anuraag Tummanapally <173079001@iitb.ac.in> wrote:

Dear Sir, Please verify my RESUME points.

1. M.Tech Project: OpenFlow Router with eBPF Forwarding Engine (Duration: May'19 - Present)

Objective: Create a fast data plane forwarding device for small to medium networks. **Completed work**: Put together the functional requirements of controller and switch. **Ongoing & future work**:

- Using POX controller to communicate with OpenVSwitch via OpenFlow protocol.
- Using eBPF in kernel space as backend for fast packet forwarding, and less number of packet copies.
- Implementing a level-compressed TRIE for fast lookup.
- Porting the entire system to a SPARC processor on FPGA, as a prototype for ioT deployment
- Benchmark testing of the system
- 2. Seminar: Open Source Router (Duration: Jul'18 Dec'18)
 - Studied Click Modular Router, Extended Berkely Packet Filter, Network Processor Architecture and Software Defined Networking (SDN)
 - Implemented a basic version of Click modular router, to work as an Ethernet switch.
- **3. Teaching Assistant**: Communication Networks (IIT Bombay, IIT Dharwad) (Duration: Jan'19 Apr'19)
 - Created and evaluated 7 lab experiments, based on socket programming.
 - Work also involved traveling, setting up lab experiments and evaluations at IIT Dharwad.

Thanks and Regards, Anuraag Tummanapally M.Tech RA

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