**Irvin Stetter**

**Solutions Engineer**

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Exceptional, experienced systems engineer able to identify solutions to highly complex technical problems, meet aggressive deadlines, and lead diverse, multi-site teams toward successful product delivery. Extensive experience in network systems architecture, software development, customer and sales support, and quality assurance.

**NFVI System Architecture**

- Developed zero touch cloud-based solutions for Communications Service Providers to allow

faster, cost effective, secure service deployment to the edge cloud end user.

- Developed and presented over 20 Proofs of Concept for NFV deployments at customer sites

and trade shows.

- Acceptance testing, on-site debugging, customer service and sales support and training.

**Certifications**

- **Cisco CCNA, CISCO CCNP (2 of 3), MEF CECP**

**Patent *(Pending)***

- Dynamic Resource Optimization US 16/553,215 filed Aug. 28, 2019. Describes a method for

continuously monitoring and managing CPU resources across an NFV infrastructure for

efficient workload distribution and optimum performance.

**Technologies**

- NFV, AWS, VMware, OpenStack, Linux KVM, Docker, Kubernetes

- Service Orchestration and Test Automation: Linux shell and REST API scripting with

Python

- Silver Peak, Versa, and VeloCloud SDWAN virtual appliances, Riverbed WAN

Optimization

- Cisco and Juniper virtual routers, Palo Alto and Fortinet virtual firewalls

- Edge Cloud High Availability and Zero Touch NFVI deployment solutions

**Senior Solutions Engineer – ADVA Optical Networking, Morrisville, NC**

Feb 2021 – Oct 2023 (2 *years 9 months*)

Support, test and troubleshoot the Ensemble Virtualization Kubernetes Solution running in VSphere datacenter.

* Technical support for Communications Service Providers to provide minimal service disruption to their customers.
* Install and test virtualization solution per customer use case to allow faster problem resolution and provide a positive customer experience.
* Train field personnel in the installation and operation of Ensemble Kubernetes solution on VMware and AWS for each new software release.
* Track customer problems from initial contact to resolution and closure.
* Provide technical input to Solution Architecture team to develop an easier to use, more resilient solution, resulting in a positive user experience.

**Senior Engineer - NFVI Solutions Architecture – ADVA Optical Networking, Morrisville, NC**

Jan 2016 – Oct 2020 (*4 years*)

* Developed and demonstrated High Availability Edge Cloud solution for customers which resulted in a (pending) US patent.
* Developed zero touch deployment requirements for Day 0, Day 1, Day N virtual services. Includes REST API scripting, Cloud-init, and service assurance test scripts.
* Interoperability testing with Ensemble NFVI and 3rd party orchestration using Openstack HEAT, TOSCA, and Openstack APIs
* Represented ADVA Ensemble NFVI in ETSI and BCE interoperability testing events and presented at

the BCE conference in Austin, TX multiple times.

* Consulted with several companies to demonstrate a multivendor SDWAN deployment scenario which won the award for Orchestrated Virtualized Multivendor SD-WAN Services PoC at MEF19.
* Traveled to various countries in Europe, South America, and the United States representing ADVA

Ensemble NFVI for PoCs, trials, and demos.

* Researched and implemented new service deployment options such as Ensemble NFVI in AWS and Softlayer clouds and Docker containerized solutions such as encryption engines and service assurance test probes.
* Consulted with development, test, and sales organizations to deliver the best cloud based NFVI solutions for
* rapid deployment of virtual Carrier Ethernet services.

**Staff Engineer System Test – Overture Networks, Morrisville, NC (*startup company*)**

June 2008 - Jan 2016  *(7 years)*

* Test strategy and planning for Virtual Network Functions (VNFs) such as virtual routers and

firewalls. Demonstrated Ensemble Service Orchestration to customers resulting in sales.

* Test lead for highly visible projects like the ISG6000 Carrier Ethernet Aggregation platform, IP

Forwarding, G.8032 Ethernet Ring Topology, Precision Timing Protocol and Synchronous Ethernet.

* Cisco interoperability testing with LACP, PPP, Frame Relay, and IP forwarding.
* MEF 2.0 Platform certification testing using the Spirent MEF test suite.
* Provided customer, partner and employee training for various NFVI solutions, products, and projects.

**Senior System Test Engineer – Allied Telesis, Raleigh, NC (*startup company*)**

April 2003 – June 2008 *(5 years)*

* System test and automation using Tcl, LINUX shell scripting for QoS and Fault Insertion on access technologies Ethernet Protection Switch Ring, Circuit Emulation Service (CES), Ethernet over Fiber, and ADSL.
* Designed proprietary test case management tool for efficient test plan creation and test case tracking.

**Senior System Test Engineer – Caspian Networks, Research Triangle Park, NC (*startup company*)**

November 2000 – March 2003  *(2 years)*

* Proof of Concept and presentation of Logical Router concept at customer site.
* Router interoperability testing with Juniper and Cisco routers.
* System test and automation using Tcl, Expect, AWK, and LINUX shell scripting.

**Senior Digital Switch System Engineer – Nortel Networks, Research Triangle Park, NC**

October 1981 – November 2000 (*19 years*)

* Development team lead for system reliability, redundancy, sanity, diagnostics, and data synchronization. Resolved high profile field issues relating to system stability.
* System test lead for integrating Operator Services in a multi-core processing platform in a multi-site environment.

**Industry Certifications**

- Cisco CCNA Certification - Routing and Switching

- Cisco CCNP - Passed Routing and Switching exams, Troubleshooting exam pending

- Metro Ethernet Forum MEF CECP - Carrier Ethernet Certified Professional

**Professional Training and Education**

**-** Silver Peak, Viptela SD-WAN, Mirantis OpenStack

- North Carolina State University, Pascal Programming, Data Structures

- REST API, Python, Linux Shell, Pearl, C, C++, Pascal

- Real Time Embedded Systems Development, Object Oriented Design, Structured Design, OSI Model,

Dynamic Protocols, Internet Architecture, TCP/IP, Ethernet, ATM, Real-Time Operating Systems

**AAS - Electronics, RETS Electronics Institute, Louisville, Kentucky**