

Curriculum Vitae

Email address: david.gee@ipengineer.net

Blog: IPEngineer.net

Podcast: Occasional Presenter on Ivan Pepelnjak's [IP Space](#) podcast

Industry Events: [Tech Field Day](#) delegate

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Introduction

I am a self-motivated, enthusiastic and hard working individual who has excellent organisational abilities. I am punctual, competent and trustworthy with sound interpersonal skills and can communicate well at technical and non-technical levels. I live to learn and have a 'can do attitude' with the ability to apply logic, common sense and intelligence to problematic scenarios, working methodically, efficiently and effectively in solo or team result based engagements. With the global networking landscape in the position it is today, not only is it exciting with plenty of opportunities to get involved in projects with demanding requirements, I believe that with customer focused education aimed at debunking the myths and technology providers who are willing to invest on development, we can rapidly move beyond customer hesitations and the reluctance in adopting problem solving technologies in a stable and safe manner.

In my personal time, I focus a vast amount of time in to researching network technologies and communicate directly with vendors and the community in an effort to increase my own skill set and help customers reach their goals confidently. This has resulted in numerous opportunities with vendors such as Cisco, Juniper and HP to get involved with product testing, writing code, submitting development ideas and participating in steering groups including attending exclusive events such as the [Tech Field Day](#) hosted in the USA. Having a background in electronic engineering and embedded development, networking is understood clearly at a fundamental level. As this is extracurricular activity, this work can be found on my blog at [IPEngineer.net](#). The blog includes efforts to introduce the networking community to some rudimentary programming skills to help remove fear and gain understanding of up and coming network trends.

Finally, I am looking for a challenging role and a chance to move in to a technical leadership position ideally for a vendor in the software defined networking, network function virtualisation, network automation space, service provider or a combination of. This role would offer:

- Presentation and public speaking opportunities
- Research and development tasks including proof of concept and integrating with development teams
- Attend industry events including: seminars, technology events, standards bodies and governing bodies
- Deliver concepts to customers and fit technology to problem spaces
- Internal training and development on technology and soft skills

Whilst I appreciate having some missing experience, I believe I would be a valuable addition to a vendor or technology organisation.

Experience

I design networks through workshops, chalk and talk sessions, proof of concepts and customer provided requirements, covering data centre, campus and wide area networking. Designs consist of concepts, high level and detailed designs. They could also include strategy and migration components as well as focused education to solve concerns or misunderstandings. I also implement network technology based on these designs and steer projects through integration and migration phases at a high level.

Technology utilised in order to deliver this design and implementation work is wide and vast, however a summarised list is here:

Layer 2 Technology and Layer 2 Tunnelling

Ethernet switching, OpenFlow, Fabric Path, TRILL, SPB, PBB, VPLS, Cisco OTV, VXLAN, GRE, NVGRE, STT, Cisco vPC, Multi-Chassis EtherChannel, Cisco vPath, Class of Service (CoS)

Layer 2.5 and 3 Technology

Policy-based routing, BGP, OSPF, ISIS, RIP, EIGRP, FHRP (HSRP, VRRP, GLBP), NAT, WAN optimisation, load balancing and application delivery, WAN delivery including PPP, VRFs, Cisco VDCs, Juniper logical & virtual routing, MPLS, LDP, RSVP-TE, Quality of Service

SDN & NFV

OpenFlow (1.0 - 1.3), HP VAN Controller and related Java experience, some OpenDayLight and solid understanding of network function virtualisation (NFV). I've also written test applications in Python for POX. I plan to write an application for HP's VAN controller. Experience with API driven networking which falls out of the ONF definition of SDN such as Cisco's onePK and Juniper's NETCONF implementation using the PyEZ libraries. To add to this I have been involved in deploying NFV for a private cloud project and Cisco Nexus NETCONF library development which is hosted [here](#).

Network Automation & Orchestration

Wrote several articles on utilising Python to automate networks using CLI scraping, Juniper's PyEZ and Cisco's onePK. This is major area of focus both personally and industrially. Currently concentrating on OpenDayLight, HP VAN and tools such as Ansible, Puppet and Chef.

WiFi

Strong understanding of concepts, no experience other than with Ruckus BigDog products.

Coding & Scripting

Experience with test driven development, understanding of constant integration, mid range to strong Python skills and the ability to communicate with APIs and write self configuring objects. Experience with Java based on developing SDN applications and some exposure to C#, PHP and assembly. Before my move to networking, I was a heavy C user with 8 and 16 bit embedded microcontroller and microprocessor code.

Security

Compliance experience including PCI-DSS network design, firewalling and stateful segmentation, IDP (IDS/IPS), NetFlow and xFlow (sFlow/jFlow etc), auditing, configuration management, segmentation, multi-tenancy, configuration management.

Recognitions, Accreditations and Qualifications

- ONC/ONC in electronics/electrical engineering (day release)
- HNC in electronics/electrical engineering (day release) at Derby University
- Professional Member of the British Computer Society. MBCS number 990184405
- Juniper JNCIA-JUNOS
- Juniper JNCIS-AC
- Juniper JNCIS-SEC
- Juniper JNCIS-QF (attended QFabric training - November 2014)
- Juniper JNCIS-ENT
- Juniper JNCIP-ENT
- Planning on taking JNCIS-QF post taking the course in Q4 2014
- Cisco CCNA
- Cisco CCNP - exams = BCMSN / BSCI / ISCW / ONT
- Cisco CCNP Security
- Cisco CCSP - exams = SND / SNRS / SNAF / SNA / IPS
- Cisco CCIP - exams = BSCI, QoS, BGP+MPLS
- Cisco CCDP – exams = ARCH
- Ruckus WiSE
- Radware AppDirector L1
- IPv6 Forum Gold Accreditation
- HP ASE SDN Application Developer
- F5 201 (Attended F5 LTM, GTM and ASM courses for version 11.3)
- High Performer Rookie of the Year - 2013 for Computacenter

Aspirations & Miscellaneous

- Desire to complete JNCIE-ENT/SP
- Cisco CCIE R&S Written (attempted lab in 2011).
- Desire to become VMWare VCP, VCDX-NV accredited
- Longer term, may take on MBA

Networking Vendors & Equipment

- Cisco
 - ASR 1000, CSR, ISR, ASA, Nexus 2000, 22000, 5000, 5500, 5600, 7010, 7200VXR, Catalyst switching, ACS, CSM, FWSM, some UCS
- Juniper
 - J series, SRX, EX, MX, SA, MAG, Firefly (perimeter and edge), QFX (3500/3600/3008)

Fortinet, Nortel, F5 (VE), Brocade, HP, Palo Alto, some Check Point and understanding of VMware NSX, Plexxi and Insieme/Cisco ACI