RYAN A. LONEY

Emeryville, CA | **ryan@loney.io**
Network Engineer with OSI 7 Layer Expertise

Education and Training

October 2015	**Certified Network Associate for MikroTik** Covers OSI Layers 1-7 **(view certificate)**
2006-2010	**BS, Environmental Policy Analysis & Planning** University of California, Davis

Corporate Experience

February 2014 - Present

Director of Advanced IP Services & Account Manager for Valley Internet
Napa Valley, CA

- Manage and establish client accounts with over 300 businesses – including over 100 Napa Valley wineries – to provide Internet, VoIP, network management and more
- Coordinate special projects, design advanced IP networks with enterprise WiFi, IP security cameras, VoIP, remote monitoring, gigabit PtP RF links, and more
- Survey complex locations to establish RF broadband links or fiber-optic loopback – primarily in areas limited to dial-up, T1, or high-latency satellite for Internet access
- Field experience with 900MHz-24GHz RF PtP and PtMP links, gigabit Ethernet, Power-over-Ethernet (PoE), single-mode optical fiber, multi-mode optical fiber, photovoltaic solar systems, and managing outdoor equipment with low-voltage DC power
- Helped drive ARPU over $100/month by selling VoIP, IP cameras, LTE failover, and local AT&T fiber loopback to new and existing clients – reaching nearly 3,000 accounts

January 2010 - Present

Director of IT at Green Valley Tractor, Inc.
Suisun Valley, CA

- Remote support for LAN, hosted VoIP, enterprise WiFi, VPN, software and hardware
- Google AdWords and supplier-linked website management
- Migrated 1.5Mbps T1 to to 20/10Mbps dedicated bandwidth over fixed-wireless – while saving $10-15,000 annually on telecommunications (January 2014)
- Replaced Windows 2000 Server with AWS EC2 in 2013 to host legacy inventory management, CRM, and invoicing software system in the cloud (January 2014)
- Upgraded to Office365 email, installed LastPass, DropBox, TSheets, & Zenefits (2014)
- Installed 720p HD IP survallience cameras with remote access, 1TB hosted NVR, and after-hours motion alerts system (January 2015)
- Submmited grant applications to Bay Area Air Quality Management District **(BAAQMD)** to earn $1.2 million+ in funding for customers' tractors that do not meet EPA standards

January 2005 - 2010

IT Associate at Green Valley Tractor, Inc.
Suisun Valley, CA

- Sought bids from ISPs for T1 data and voice, migrated to TelePacific T1 from analog phone lines and dial-up Internet (November 2005)
- Installed 100Base-T network cards on employee workstations, ran new cat5, installed switch, and set up Active Directory on Windows 2000 Server to build office LAN
- Provided support for local Windows Server, LAN, software, and hardware
- Configured remote access to Windows Remote Desktop and VPN using static IPv4

OSI Layer Stack Experience

Layer 1
Full network engineering over 900MHz, 2GHz, 5GHz, 11GHz, and 24GHz RF links. Multimode and singlemode fiber-optic links, and fiber-optic media conversion to gigabit ethernet. Crimping RJ-45s and punching keystone jacks for cat5. Pulling fiber-optic and cat5 cable through conduit. Testing cable integrity with Fluke IntelliTone toner and MicroScanner cable verifier.

Layer 2
Managed, configured, and communicated with devices over Layer 1, including routers and managed switches. Assigned static DHCP reservations to network devices by MAC Address. Familiar with EOIP for simulated Layer 2 tunnel.

Layer 3
TCP/IP, IP subnetting, customer IPv4 allocation, ICMP for monitoring, and disabling/enabling ICMP for specific subnets for security.

Layer 4
Field experience with TCP, UDP, PPTP, packet capture, and more. Using NAT policies and firewall rules to capture VoIP and high-priority packets that cannot be isolated at Layer 3, modifying their DSCP tag header for higher QoS priority on WAN and/or LAN. Port forwarding, NAT traversal troubleshooting, 1:1 NAT, and filtering, shaping, or blocking based on port and/or protocol.

Layers 5-7
Experience with DNS, FTP, HTTP, HTTPS, IMAP, NTP, RDP (Apple and Windows), SSH, SIP, SMTP, SNMP, and more. Light experience with BGP, BOOTP, LDAP, RADIUS, rsync, RTP, TFTP, TLS and more.

Applications
Installing, managing, and troublehooting VoIP, Comunigate Pro, Polycom & Cisco phones, Flowroute SIP trunking, hosted PBX & NVR, SSH, Ubiquiti UniFi & airMax, Mikrotik routers, Cisco Meraki, Linux, MacOS & Windows servers, and more.

Political Experience

Feb. - Nov. 2013
Regional Director at Gay & Lesbian Victory Fund and Institute
Washington, D.C. * Secured corporate sponsors: AT&T, Bank of America, Southwest, and Wells Fargo * Raised more than $850,000 from more than 2,500 donors in the Southeast U.S. * Advised and trained political candidates on fundraising: 65% win rate in 2013 cycle

Jan. 2012 - 2013
Finance Director at Julia Brownley for Congress (CA-26)
Camarillo, CA * Developed and executed plan to raise $2 million in 8 months, exceeded goal by 5% * Developed digitial fundraising plan, raising more than $200,000 over email alone * Planned 35 fundraisers (keynotes by Vice President Biden, President Clinton, et al)

Feb. - Dec. 2011
Political Assistant to House Democratic Whip Steny Hoyer
Washington, D.C. * Assisted Political Director in managing $2.6 million budget for political operations * Produced political briefing memos for Hoyer's trips to 30+ targeted districts in 2013

Jan. 2010 - 2011
Deputy Finance Director at Ami Bera for Congress (CA-03)
Elk Grove, CA * Managed call time for a top-tier Congressional candidate to raise over $2.9 million * Hired, trained, and supervised two full-time finance assistants

ryan@loney.io • +1 (707) 200-1140
1255 66th St., Emeryville, CA 94608