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

Technical Account Manager for Valley Internet
Napa Valley, CA

- Manage and establish client accounts with over 300 businesses
- Provide over 100 Napa Valley wineries with Internet, VoIP, network management
- Design networks with enterprise WiFi, IP cameras, VoIP, gigabit PtP RF links
- Survey sites for RF links – primarily in areas limited to dial-up, T1, or satellite for data
- 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
- **Auction Napa Valley**: single-day charity event raising $16M using mobile bidding. 1,000 guests, 33 WiFi APs, 100Mbps backhaul w/LTE failover, zero downtime

January 2010 - Present

Remote IT Manager 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 to 20Mbps dedicated bandwidth over fixed-wireless with hosted VoIP (2014)
- $10-15,000 saved annually on telecommunications from migration to 20Mbps
- AWS EC2 migration to run legacy inventory & invoicing software in the cloud (2014)
- Migration to Office365 email; installed LastPass, DropBox, TSheets, & Zenefits (2014)
- Installed 12 IP surveillance cameras with remote access and motion alerts (2015)
- Submitted 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

Network Manager Green Valley Tractor, Inc.
Suisun Valley, CA

- Collected bids from ISPs for T1 data and voice, migrated to TelePacific T1 from analog phone lines and dial-up Internet (2005)
- Built a 5 workstation local network using Windows 2000 Server
- Configured Remote Desktop for remote access and monitoring

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 supervied two full-time finance assistants

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.

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