RYAN A. LONEY

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

Education

2006-2010
BS, Environmental Policy Analysis & Planning
Emphasis in Energy Policy
University of California, Davis

Oct. 2015
Certified Network Associate for MikroTik
Covers OSI Layers 1-7 **(view certificate)**

Corporate Experience

Feb. 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 from nearly 3,000 subscribers to $100/month by selling VoIP, IP cameras, LTE failover, and local AT&T fiber loopback to our customers

Jan. 2005 - Jan. 2010 (Full-Time) | Jan. 2010 - Present (Remote)
Director of IT at Green Valley Tractor, Inc.
Suisun Valley, CA

- Provide support for LAN, hosted VoIP, enterprise WiFi, software and hardware
- Manage Google AdWords and supplier-hosted website that integrates with **kubota.com**
- Replaced Windows 2000 Server with AWS EC2 in 2013 to host legacy inventory management, CRM, and invoicing software system in the cloud
- Transitioned from dial-up to T1 in 2005, to to 20Mbps/10Mbps dedicated bandwidth over fixed-wireless in 2014 with /29 public IPv4 subnet – saving $10-15k per year
- Migrated legacy email to Office365, installed corportate LastPass and DropBox for accessing cloud-based services and sharing crictical documents with clients
- Installed 720p HD IP survallience cameras with remote access, 1TB hosted NVR, and after-hours motion alerts system
- Prepared and submmited grant applications to the Bay Area Air Quality Management District **(BAAQMD)** to receive over $1.2 million dollars in direct funding for customers with tractors that do not meet EPA emmissions standards for NOx and PM

Feb. 2013 - 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.
- Organized and executed fundraising receptions in Atlanta, Charlotte, Houston, and Nashville, with over 1,250 attendees
- Advised and trained political candidates on fundraising: 65% win rate in 2013 cycle

Jan. 2012 - Jan 2013	**Finance Director at Julia Brownley for Congress (CA-26)** Camarillo, CA • Recruited, dispatched to targeted U.S. House district after an unexpected retirement • Developed and executed plan to raise $2 million in 8 months, exceeded goal by 5% • Hired, trained, and supervised full-time deputy director and finance assitant • 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 • Processed compliance documents for $2.3 million dollars raised for candidates & the Democratic Party, submitted to FEC compliance attorney for review
Jan. 2010 - Jan. 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 • Executed digital fundraising plan by researching and communicating with donors • Built cloud-based database in **ngpvan** from scratch growing to over 4,000 donors & exported raw data to match with compliance officer's reports to FEC

——— 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.