

Network Administrator | System Administrator | Software Developer | Web Developer | Electronics

Experienced and capable administrator. Experience administering Windows, Linux and *BSD systems and networks for both servers, workstations and thin clients. Experience with a variety of network technologies such as VPN networks, IPv6, routing, packet tracing, traffic flow management, radio networks, optical fibre transmission, MPLS/VPLS/OSPF/BGP technologies.

Experienced and capable developer. Experience developing web-based (and CLI) applications using PHP, with strong integrations to databases such as MySQL. Experience in developing desktop applications in C#/.NET on both Windows and Linux (mono). Experience in developing front-end UI's and back-end workers for embedded IoT devices (i.e. Raspberry Pi, Arduino, etc). Experience with C++ and QT/QML.

Experience managing customer/client relationships, meeting goals and exceeding expectations, and delivering a solid solution to clients by thinking outside the box and being inventive.

Skills

- Windows Server 2003 / 2008(R2) / 2011 / 2012 / 2016
 - Windows 95, 98(SE), 2000, XP, ME, Vista, 7, 8, 8.1, 10
 - Linux Debian, Ubuntu and derivatives. Most other distros.
 - DHCP (Windows + UNIX)
 - DNS (Windows + BIND9)
 - Web Servers (IIS + Apache + nginx + lighttpd)
 - PHP versions 4 – 7
 - MySQL
 - Microsoft SQL Server
 - Microsoft Active Directory
 - Hardware acquisition
 - System/server building
 - Inventory
 - Working in teams and working alone
 - Optical Fibre slicing (carrier grade networks)
 - Wireless network design and deployment – long and short range
 - Virtual Private Servers
 - Mikrotik Networking and routing
 - Cisco core routing
 - C#/.NET (mono on Unix)
 - C++ with QT/QML
 - Bash/shell scripting
 - UNIX task automation
 - Project design and development
 - Network and server deployment
 - Network cabling
 - Network switching and routing
 - File servers (Windows + FreeNAS + OpenMediaVault + Custom Linux based (Samba))
 - Samba based active directory domain controller
 - Invoicing
 - Client management
 - Time management
 - Telstra copper installation + maintenance
 - Electronics – Arduino, Raspberry Pi
 - IP PBX Installation and management (Grandstream)
 - Microsoft Office
 - Radio networks (WiFi, Microwave, mmWave)
 - Switching and routing (Cisco, Extreme, Mikrotik, etc)
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Career

IP Telco

Extremely fast growing national internet service provider - Providing voice and data services over a plethora of mediums from traditional NBN to optical fibre, fixed wireless / microwave. IP Telco owns and has built a fixed wireless network covering the entire Wide Bay - Burnett area to provide high performance data services to businesses in the region.

Systems Engineer

June 2018 – Current

Build, maintain and deploy wide scale backhaul and transmission stations. Network core & edge maintenance.

Key Achievements:

- Maintain carrier grade fixed and fixed wireless network
- Deploy custom software solutions for end to end management of network termination devices and customer circuits
- Network monitoring of carrier core, backhaul and edge networks
- Cambium, Infinet, Mikrotik, Extreme, Netonix, Cisco certifications and education

Turning Point Technology

Diversified supplier of on-going support to a wide number of long term clients in and around the local area, including: medical practices, law firms, real estates and businesses. Providing first-time-working solutions to end users and clients. Renowned performance EFI tuning specialist working in all areas of electronics and vehicle engine management and fuel systems.

Network Engineer / System Administrator

April 2016 – June 2018

Being a key support person to all clients, large and small and delivering solutions to every problem encountered.

Key Achievements:

- Starting in a role supporting 2 other technicians, within 9 months being the sole technician to handle all work loads
- Sole design and deployment of several medical clinics (network, computers, servers) including several of which that were remotely connected to main clinics using thin clients and terminal servers.
- Long range wireless link builds (3km+)
- IP PBX installation in company office and 3 client offices
- Built and configured VPS and offered clients web, e-mail and DNS hosting (estimated income: \$25,000/yr)
- Built and configured Linux file server with large ZFS RAID arrays and setup offsite backup service for clients (estimated income: \$15,000/yr)

Self Employed – Crystal Utopia Enterprises

Specialising in the sourcing and importation of semi-precious gemstones and crystals from the far reaches of the world with a focus on retail within Australia.

Developer / Customer Service / Acquisitions

August 2013 - July 2015

Web Developer, providing customer service to all retail and wholesale clients, communications and negotiations with foreign mining and gemmological companies (i.e. China, Brazil, South Africa, India). Managing warehousing and office staff.

Key Achievements:

- Developed full customer management database specific to the company
- Developed custom online store tied into customer database
- Developed intelligent content delivery network to support online store load and balance across servers
- Turned over AU\$1M profit in 2 years

GCDE / Gary Cahill Data & Electrical

Highly respected and skilled data and electrical contractor specialising in data networks, optical fibre, nurse call systems, wireless communications.

Data Technician / Mature-age Apprentice Electro-technician

Feb 2012 – August 2013

Originally a data cabling technician with a key speciality in computing and computer networks, then moving onto to also study and train as an electro-technician

Key Achievements:

- Lead technician in the deployment of a state-of-the-art nurse call system in Hervey Bay Hospital (6+ month project)
- Deployment of state-of-the-art nurse call system in Maryborough Hospital renovation of several wings
- Provide extensive training on computing and telecommunication skills to peers
- Optical fibre installation in Maryborough Hospital

Self Employed – JCOMM PTY LTD

Telstra Installation & Maintenance contractor specialising in copper PSTN and ADSL services, network upgrades and rearrangements, network replacement and maintenance.

Director / Field Technician

May 2009 – January 2013

Responsible for I&M contract with Telstra. Overseeing all works, CAD plan markup, wages, staff management. Lead technician on the ground.

Key Achievements:

- Build and grow a successful telecommunications company
- Employ and fully train 2 field staff
- Assist in natural disaster recovery for Telstra assets in Brisbane floods
- Provide national assistance to Telstra in VIC for high work loads
- Maintain AU\$500K company profit for several consecutive years

Qualifications

- Diploma in Telecommunications (Advanced Cable Jointing, Pit + Pile, Cable Hauling, Installers)
- Telstra certified ADSL accreditation
- Optical Fibre (carrier networks) accreditation (Telstra, Optus, NBN)
- Certificate III in Information Technology
- ACA Open cabling accreditation (expired)
- Cambium Networks - ePMP + 820 certifications