

Professional Summary

Resourceful IT/OT Systems Engineer with extensive experience across MSP, enterprise, and industrial mining environments. Proven background in designing and delivering secure, high-availability infrastructure across hybrid cloud, networking, and cybersecurity domains, with deep hands-on exposure to OT/ICS systems and industrial networks. Experienced in leading solution delivery across complex IT/OT landscapes, strengthening cybersecurity posture, and ensuring operational continuity in 24/7 production environments. Recognised for coordinating cross-functional teams, managing technical initiatives end-to-end, and aligning technology solutions with business and operational objectives.

Key Skills & Technologies

Infrastructure & Cloud

Design and operate resilient hybrid environments across Azure, VMware, and enterprise Windows Server ecosystems. Strong focus on identity, access control, automation, and secure configuration using Entra ID (Azure AD), Intune, Autopilot, Group Policy, and RBAC to support scalable, business-aligned solutions.

Network & Security Architecture

Design and deliver secure, high-availability network architectures across IT and OT environments, including segmentation, VPN, routing, switching, and identity-based access controls. Experienced in implementing network access control (NAC), firewall policy enforcement, and zero-trust-aligned security controls to reduce risk and strengthen overall security posture.

OT/ICS Systems & Industrial Networking

Enhance reliability and cybersecurity of industrial control environments, including DCS/FCS, SCADA networks, PLC integrations, and multi-vendor industrial switching. Apply OT security principles aligned to the Purdue Model and IEC 62443 while maintaining operational availability.

Cybersecurity Governance & Hardening

Apply ISO/IEC 27001, NIST CSF, COBIT, and ACSC Essential Eight frameworks to uplift security maturity across enterprise and operational environments. Experienced in risk assessments, vulnerability management, configuration hardening, and implementing zoning and segmentation strategies across complex IT/OT landscapes.

Monitoring, Automation & Operational Efficiency

Improve operational efficiency through automation and visibility using PowerShell, PowerCLI, and scripting. Experienced in enterprise monitoring, asset management, and infrastructure documentation with tools such as SolarWinds, NetBox, NetBrain, and related platforms.

Technical Leadership & Solution Delivery

Provide technical leadership across complex initiatives, contributing to technology roadmaps and digital transformation efforts while guiding solution design, project delivery, and stakeholder engagement across IT, OT, cybersecurity, and vendor teams to deliver secure, scalable, and operationally aligned outcomes.

Work Experiences

Newmont Corporation

ICS/OT Network & Cybersecurity Advisor | Sep 2022 – Present

Supporting Newmont's Cadia operations by leading improvements across OT infrastructure, industrial networking, and OT cybersecurity within a 24/7 production environment. Accountable for strengthening the security and resilience of large-scale hybrid IT/OT environments across surface and underground operations, while working closely with IT, OT, and cybersecurity teams to standardise practices, reduce risk, and deliver resilient, fit-for-purpose solutions across the regional Process Control environment.

Transitioned into this role after initially joining Newmont as an Infrastructure Engineer, where responsibilities focused on stabilising and improving enterprise IT systems supporting site-critical operations. This foundation enabled a broader shift into OT and cybersecurity initiatives, bridging IT and Process Control domains and contributing to security-led infrastructure uplift across multiple sites.

Selected Projects:

- Claroty OT Cybersecurity Deployment — Site Technical Lead
- Security Zoning Deployment (OT Network Segmentation) — Process Control Technical Lead
- IT/OT Network Separation and VRF/VLAN Auditing — Process Control Technical Lead
- Industrial Firewall Proof of Concept (PoC) — Site Technical Lead
- DCS Virtualization — Site Technical Lead
- Azure Stack HCI Deployment (OTIS v2) — Technical Support
- DCS HIS/EWS Upgrade (Windows Server 2008 R2 → 2022) — Technical Lead
- ITAM/IPAM Deployment for Process Control (NetBox) — Technical Lead
- RDS High-Availability Deployment for SAOC — Technical Lead
- Eaton Modular UPS Deployment for Micro Datacentre — Technical Lead
- FactoryTalk Asset Centre (FTAC) & UGS Upgrade — Hardware & Network Technical Support
- SmartCyclone System Deployment — Technical Support

Key Achievements:

- Strengthened OT cybersecurity posture by supporting migration from Forescout to Claroty and uplifting OT threat visibility.
- Implemented OT network zoning and micro-segmentation, reducing attack surface and operational risk across Process Control networks.
- Contributed to IT/OT network segmentation, auditing VLANs/VRFs and supporting secure network redesign and switch replacement planning.
- Conducted AD security audit for the Process Control domain, identifying gaps and improving identity and access controls.
- Designed and deployed a virtualised OT test environment to validate industrial applications prior to production rollout.
- Implemented and customised NetBox for centralised ITAM/IPAM within the Process Control environment.
- Designed and deployed high-availability remote access for SAOC operators using RDS and session broker across non-federated AD domains.
- Integrated modular UPS into centralised monitoring and alerting, improving visibility and resilience for OT infrastructure.

Technologies & Practices

Microsoft Technologies (Wintel, SCCM, Azure, MDM, Entra ID, WSUS, MDT); VMware (ESXi, vCenter, vSphere); Cisco (Catalyst, Meraki, Nexus, UCS chassis, Wireless Controller, ISE); PowerShell, Power CLI, Industrial switches (Hirschmann, Moxa, Cisco, RuggedCom); Yokogawa DCS/FCS, Citect SCADA, and FactoryTalk networks; PLC (Rockwell/Allen-Bradley and Siemens); SCADA, OT/ICS protocols: Modbus, Profibus, OPC; Eaton modular UPS; SolarWinds, NetBrain, Netbox (ITAM/IPAM) and Lansweeper. ITIL, ISO/IEC 27001, NIST (CSF), IEC 62443 and Purdue Model.

The Missing Link (TML)

Senior Solution Engineer | Jul 2020 – Aug 2022

The Missing Link is a managed services provider delivering modern workplace and cybersecurity solutions to mid-to-large enterprises. As a Senior Solution Engineer within the Solutions Team, partnered with Sales to assess client environments and translate business requirements into secure, scalable technical solutions. Led solution design and delivery across the full project lifecycle, from scoping and architecture through implementation, proof of concept, training, and formal handover, ensuring outcomes aligned with security, resilience, and long-term operational needs.

Key Responsibilities:

- Led migration of on-premises and hybrid infrastructure to Microsoft Azure, supporting scalable and secure cloud adoption.
- Designed and implemented identity and access management solutions, including Conditional Access, MFA, SSO, role-based access controls, and geo-blocking.
- Delivered secure remote access, teleworker enablement, and SaaS/PaaS connectivity solutions for distributed workforces.
- Designed disaster recovery strategies and implemented cloud-based backup solutions to support business continuity.
- Implemented Intune MDM policies and security baselines for remote and mobile devices.
- Supported migration of legacy voice platforms to Microsoft Teams Voice.
- Conducted cybersecurity risk assessments and supported remediation aligned with ISO 27001, NIST CSF, and ACSC Essential Eight (E8).
- Addressed vulnerabilities identified through Essential Eight maturity assessments and cyber hygiene programs.
- Supported implementation of email, DNS, and cloud security controls, including data protection and encryption practices.
- Contributed to security awareness initiatives and remediation planning in collaboration with cybersecurity teams.

Selected Projects

- **Sydney Airport Cybersecurity Enhancement Program** - Contributor
Supported a year-long post-assessment remediation program, implementing security controls and addressing identified risks in collaboration with internal teams and external consultants
- **Private Cloud Migration Project** - Technical Lead
Led upgrade of a private cloud platform for data-sovereignty clients, delivering live migration of 300+ virtual machines to a new hyper-converged environment with minimal disruption.

Technologies & Practices

Microsoft Technologies (Azure, Intune/MDM, Entra ID, MS Defender, EOP); VMware (ESXi, vCenter, vSphere); Hyperconverged chassis, Hosting Service, Private Cloud, VPS, Cloudflare, Proofpoint, Automox, Mimecast, Veeam, N-Central, ISO/IEC 27001, NIST (CSF) and ACSC Essential Eight (E8).

5G Networks

Senior Systems and Network Engineer | Jan 2018 – Jun 2020

5G Networks is a telecommunications carrier and managed service provider (MSP). Joined the Level 3 engineering team following the acquisition of Anittel's communications division, supporting enterprise clients across network, data centre, and cloud services.

Key Responsibilities:

- Supported and maintained mission-critical network and communication systems across on-premises, cloud, and hybrid environments.
- Managed and secured remote and site connectivity, including VPN, MPLS, SSL VPN, IPsec, and identity-based network access controls.
- Designed, deployed, and maintained secure cloud connectivity to SaaS and PaaS services on the Microsoft Azure platform.
- Implemented and maintained identity and access management solutions, including MFA, SSO, role-based access, and conditional access policies.
- Provided Level 3 network escalation and troubleshooting across LAN, WAN, and edge infrastructure, ensuring high availability and minimal downtime.
- Monitored, analysed, and optimised network performance, routing, and security policies to meet SLA and compliance requirements.
- Collaborated with service providers, vendors, and contractors to deliver network projects on time and within scope.

Technologies & Practices

Cisco Networking (IOS, Catalyst, ASA, Meraki); Fortinet (FortiGate); Palo Alto (GlobalProtect); DrayTek, Microsoft Azure (VPN Gateway, ExpressRoute, Virtual Network, AD Connect); VMware (ESXi, vCenter); Windows Server (AD DS, DNS, DHCP, Group Policy, Hyper-V); Sophos UTM; SonicWall; IPsec, SSL VPN, BGP, OSPF, VLANs, QoS; SolarWinds, Auvik; Network Security (MFA, SSO, RADIUS, Conditional Access).

Anittel

Senior Support Engineer | Feb 2014 – Dec 2017

Anittel is a managed service provider (MSP) supporting regional enterprise clients across NSW Central West. Worked as a senior escalation engineer delivering end-to-end IT support and infrastructure services across network, systems, and cloud environments for business-critical operations.

Key Responsibilities:

- Provided Level 3 technical support across network, server, and application environments, resolving complex infrastructure and connectivity issues.
- Performed proactive maintenance, patching, and system health checks to support uptime and business continuity.
- Configured, tested, and troubleshooted hardware, software, and network components to meet performance and reliability targets.
- Implemented and managed critical business systems, including backup, disaster recovery, and secure remote access solutions.

- Monitored and maintained LAN/WAN services across regional sites, ensuring secure and stable connectivity.

Selected Projects

- **Microsoft 365 Email Migration Projects - Technical Lead**
Led multiple migrations from on-premises Microsoft Exchange to Microsoft 365, improving collaboration, reliability, and operational efficiency for enterprise clients.
- **Infrastructure Upgrade Projects – Food & Agribusiness - Technical Lead**
Delivered infrastructure upgrades for dairy, agribusiness, and food manufacturing clients, integrating IT infrastructure with industrial systems (PLC, SCADA, MES). Responsibilities included requirements analysis, solution design, SOW preparation, deployment coordination, handover, and staff training.

Technologies & Practices

Cisco IOS (Catalyst switches, ASA firewalls), HP Pavilion series, Dell PowerEdge Series, VPN (IPsec, SSL), MPLS, VLANs, QoS, RADIUS, HSRP, network access control. Microsoft 365, Windows Server, AD, SCCM, WSUS, DHCP, DNS, GPO, VMware (ESXi, vCenter), Windows Server (AD DS, DNS, DHCP, Group Policy). Veeam backup, ShadowProtect backup, DRP. Industrial Integration: SCADA, PLC, MES connectivity considerations for infrastructure projects. ITIL-aligned service delivery, basic awareness of ISO/IEC 27001 and NIST (CSF).

IT Consultant (Contract)

Agile Insights – Cloud & Infrastructure | Jul 2013 – Jan 2014

Designed and deployed Microsoft Azure environments to host mission-critical business applications and SQL databases. Delivered secure, scalable cloud architectures tailored to performance and compliance requirements. Supported infrastructure planning, deployment, and optimisation for smooth transitions from on-premises systems to cloud platforms.

Attaché Software – Infrastructure Relocation & Migration | Apr 2013 – Jun 2013

Led the relocation and migration of IT infrastructure from Attaché Software's North Sydney office to a new facility in Macquarie Park. Planned and executed transfer of physical servers, 100+ virtual machines, backup systems, and network services, ensuring uninterrupted operations. Designed and optimised the new data centre layout, maintained technical documentation, and collaborated with internal teams and vendors to ensure timely delivery and risk mitigation.

United Nations (UN)

ICT Project Officer | Apr 2004 – Dec 2012

Collaborated with United Nations agencies including UNDP, UNHCR, and UNESCO to support ICT operations across metropolitan, remote, and post-conflict environments. Progressed from System Administrator to Senior System Administrator and ultimately ICT Project Officer, with responsibility for ICT infrastructure, secure connectivity, and digital services supporting field offices, mobile units, and mission-critical humanitarian and development programs.

Key Achievements:

- Administered ICT systems and secure networks for two UNHCR sub-offices and the UNESCO Tehran Cluster Office, ensuring reliable connectivity for seven mobile units operating in remote regions.
- Deployed micro data centres at three Middle Eastern universities and implemented digital infrastructure for national libraries in Iran and Tajikistan.

- Provided ICT and logistical support for refugee operations, including voluntary repatriation of Afghan refugees, preparation for Iraqi refugee influx, and delivery of medical services across three camps along the Iran–Afghanistan border.
- Supported large-scale, technology-enabled election processes for Afghan refugees in Iran and Iraqi refugees in Syria.
- Coordinated with local authorities, NGOs, and service providers to deliver complex ICT and operational initiatives across international and government stakeholders.

NARGAN Consulting Engineers

IT & CAD Support Technician | Sep 2002 – Mar 2004

Nargan is a consulting engineering firm specialising in oil and gas infrastructure design. Joined as a junior support technician within the drafting and computer department, providing technical support for engineering systems and assisting with the transition from manual drafting to digital design workflows.

Key Responsibilities:

- Provided day-to-day technical support for internal computer systems, networks, and CAD workstations.
- Supported software installation, configuration, and troubleshooting for engineering and design applications.
- Assisted engineering and drafting teams with the migration to digital design workflows using AutoCAD and related tools.
- Collaborated with technical and design staff to improve design efficiency and digital file management practices.

Leadership & Team Management

Demonstrated leadership through technical coordination, field team supervision, and delivery-focused roles in complex, multi-stakeholder environments. Experience includes leading technical workstreams, supervising operational teams, and supporting cross-functional collaboration in humanitarian and commercial settings.

- **United Nations** — Appointed Deputy of a VRC Mobile Unit, coordinating and supervising teams of 4 -7 staff operating in remote and high-risk regions.
- **United Nations (Electoral Missions)** - Coordinated election operations in Syria, supporting teams of 10 -12 staff and overseeing up to 100 locally engaged contractors.
- **United Nations** - Nominated by the Mission Director to coordinate the commissioning and closure of sub-offices, leading teams of approximately 15 officers and technicians.
- **The Missing Link** - Acted as Project Technical Lead for multiple enterprise clients, mentoring junior engineers and coordinating delivery across sales, cybersecurity, and operations teams.
- **5G Networks** - Provided technical leadership for the NSW Central West sub-office, supporting and coordinating a small engineering team across Orange and Bathurst.
- **Attaché Software (External Project Engagement)** - Contributed as an external technical resource, coordinating with developers and contractors and acting as a liaison between development and operations stakeholders.

Technical Projects (Personal & lab)

Maintained a personal lab environment to explore enterprise infrastructure, networking, and security concepts, validate design approaches, and experiment with emerging technologies in a controlled setting.

- Built and maintained a VMware and Proxmox-based home lab simulating enterprise network and service architectures.
- Deployed and administered Linux servers (Ubuntu, CentOS, Kali Linux) supporting web, file, and database services.
- Implemented network segmentation, firewall rules, VPN access, and reverse proxy services to model secure remote access.
- Used EVE-NG to simulate and test network topologies, routing, and security scenarios.
- Explored automation and infrastructure workflows using tools such as Ansible and Docker.
- Tested hybrid cloud integration scenarios using Azure and AWS free tiers.

Education & Professional Certificates

Master of Cybersecurity (MSc)

Azad University (IAU), 2003

Bachelor of Computer Science (BSc)

Azad University (IAU), 2000

ISO/IEC 27001:2013 Lead Implementer & Lead Auditor

Information Security Management Systems (ISMS) accredited by Exemplar Global — July 2022

CISSP – Certified Information Systems Security Professional (ISC2)

In progress

Cisco Certified Specialist – Security Core (SCOR 350-701)

Completed core exam toward CCNP Security certification — August 2023

Cisco Certified Network Associate (CCNA) – Routing & Switching

Issued February 2020

Sophos Certified Engineer

Network security certification covering firewall config, VPN, and security best practices — October 2019

Dell EMC Campus Network – Credential

Enterprise network architecture, scalable design, and secure network segmentation — January 2019

Nationally Accredited Fibre Optic Cabling & Testing Skillset (AQF)

Optical fibre installation, termination, splicing, and optical measurement — November 2025

Fluke Networks – Certified Cabling Test Technician (Copper & Fibre)

Standards-based copper and fibre certification testing — February 2024

Microsoft Certified Solutions Expert (MCSE) – Infrastructure

Issued March 2013

Microsoft Certified Solutions Associate (MCSA) – Windows Server

Issued March 2013

Microsoft Certified Professional (MCP)

Issued March 2013