



Binod Thapa

CYBER SECURITY ANALYST

Details

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Maple Grove

USA

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Areas of Expertise

Cybersecurity & Threat Defense:
STRIDE Threat Modeling, PKI
& Certificate Management,
mTLS/TLS Hardening, MQTT
Security, Incident Response, Log
Normalization

Data Analytics & Automation:
Python Scripting, Microsoft
Power BI Dashboards, Power
Apps, Power Automate, Microsoft
Dynamics 365

Risk Management &
Operations: Root-Cause Analysis
(DMAIC/RCA), Lean Six Sigma,
Regulatory Compliance, Process
Optimization, Team Leadership

Professional Summary

Results-driven Cybersecurity Analyst combining hands-on technical training in IoT cyber defense, threat modeling, and defensive controls with 16 years of supervisory leadership in regulated medical device manufacturing. Recognized as a Top Performer (Top 10%) in IoT Cyber Defense for executing custom Public Key Infrastructure architecture and TLS/mTLS protocol hardening. Microsoft Certified (PL-900) with proven expertise in Python scripting, Power BI analytics, Dynamics 365, and root-cause risk mitigation.

Professional Experience

Cyber Security Junior Engineer, Hydrocient IoT Cyber Defense, Remote

APR 2026 — JUN 2026

- Awarded Top Performer (Top 10%) for technical execution; engineered STRIDE threat models and asset inventories across critical IoT infrastructure to eliminate high-risk attack vectors.
- Architected a custom Python PKI framework and enforced TLS/mTLS encryption across mosquito MQTT pipelines, preventing MITM exploits and unauthorized shutoff commands while optimizing latency.
- Simulated offensive replay and spoofing attacks on telemetry streams to validate defensive controls and systematically eliminate critical control-system vulnerabilities.
- Built automated Python scripts normalizing 100+ daily security logs for live threat detection dashboards (protecting \$8 M/week infrastructure) and authored end-to-end incident response playbooks.

Supervisor — Quality & Reliability, TE Connectivity, Plymouth MN

AUG 2017 — OCT 2024

- Monitored daily operational KPIs to proactively detect anomalies, optimizing workflows to boost overall system efficiency by 15%.
- Executed DMAIC-driven root-cause data analysis to eliminate operational downtime, saving \$135K annually and increasing process yield from 15% to 20%.
- Enforced strict regulatory quality, safety, and compliance standards across cross-functional manufacturing and assembly lines.

Production Lead, TE Connectivity, Plymouth, MN

JUL 2008 — JUL 2017

- Coordinated production scheduling, equipment calibration, and technical training to increase overall equipment uptime by 10%.
- Partnered on Edwards' Quality & Supply Task Force, recovering critical on-time delivery metrics and safeguarding \$15M in safety stock inventory.
- Redesigned assembly workstations to enhance ergonomics, maintain 5S compliance, and improve operator safety and throughput.

Education

Fundamentals of Cybersecurity CompTIA+CISA, TechHub, Smartnorth , Minneapolis, MN

SEPT 2025 — JUN 2026

Technical Fundamentals Microsoft D 365, Power Platform, Automation & Power BI, TechFluent Academy , Minneapolis, MN

JUL 2025 — MAY 2026

Bachelor of Arts in Economics & Commerce, Tribhuvan University

APR 1994 — AUG 1998

Licenses & Certifications

Power Platform Fundamentals (PL900), Microsoft

APR 2026 — MAY 2026

Lean Manufacturing, TE Connectivity

FEB 2022 — AUG 2022

Project Management, TechFluent Academy

JUL 2025 — SEPT 2025

Awards

Top performer , Hydroficient IoT Cyber Defense

APR 2026 — JUN 2026