

ARRASHI SATYADI

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South Jakarta, Indonesia

PROFESSIONAL SUMMARY

Results-driven **Network & IT Infrastructure Engineer** with **3+ years** of hands-on experience in enterprise server administration, virtualization (VMware ESXi, Proxmox VE), Cisco networking, and AIoT/Autonomous Drone systems. Proven track record managing **10+ IBM enterprise servers**, supporting **500+ users**, and maintaining **99%+ system uptime**. Designed enterprise-grade **AI server infrastructure** (Dell PowerEdge R760xa, 4x NVIDIA H100 GPU) supporting up to **2,000,000 concurrent users** (total budget: Rp 16B+). Adept at bridging hardware, edge systems, and network infrastructure for high-reliability environments. Actively targeting **Network Engineer, IT Infrastructure Engineer, and HPC/AI Infrastructure Engineer** roles.

TECHNICAL SKILLS

Networking & Protocols:	Cisco IOS, OSPF, BGP, EIGRP, VLAN, STP, EtherChannel, TCP/IP, DNS, DHCP, NAT, SSH, VPN, VRRP, GLBP, Load Balancing, Layer 2/3 Switching, Network Segmentation
Server & Virtualization:	VMware ESXi (vSphere), Proxmox VE, Hypervisor Management, VM Provisioning, Windows Server, Active Directory (ADDC), NAS Storage, RAID, NVMe, iDRAC9, IBM System Servers, Dell PowerEdge, Apache Guacamole
Data Center & HPC Infra:	Dell PowerEdge R760xd/R760xa, High Availability (HA), NVIDIA H100 GPU Clusters, AI Server Architecture, Budget Planning (RAB/LKPP/INAPROC), Enterprise Storage Architecture
IoT & Embedded Systems:	ESP32, ArduPilot, MAVLink, PX4, Flight Controllers, GPS (M10Q), MQTT, WebSockets, CGNAT Bypass, Firmware Integration, Flutter (IoT App)
Autonomous Systems / AIoT:	UAV/Drone System Design, VTOL (QuadPlane / Tilt-Rotor), Real-Time Video Telemetry, Edge AI Integration, RF Protocol Optimization
OS, Tools & Languages:	Linux (Ubuntu Server), Windows Server, Bash, Python, Wireshark, Docker, Git, FFmpeg English: TOEIC 770/990 (Professional Working)

PROFESSIONAL EXPERIENCE

Autonomous Drone & AIoT Engineer (Contract) Mitra Teknologi Gemilang (MTG)	Jan 2026 – Sep 2026 Depok, Indonesia
- Engineered autonomous drone systems (ArduPilot/MAVLink) for real-time crowd monitoring and riot detection at large-scale events, achieving reliable HD video and sub-200ms telemetry transmission. - Developed end-to-end AIoT data pipelines integrating embedded systems (ESP32, M10Q GPS, Flight Controllers) with cloud databases via WebSockets, bridging field hardware with centralized server infrastructure. - Spearheaded VTOL R&D (QuadPlane/Tilt-Rotor designs), transitioning from standard multirotors to enhance aerodynamic efficiency and extend autonomous patrol duration by ~40%. - Optimized Command & Control (C2) networks with custom RF protocols to maintain robust, low-latency command links in high-RF-interference environments.	
IT Infrastructure & Network Engineer (Freelance) Lembaga Pengembangan Komputerisasi (LePKom), Gunadarma University	Jun 2024 – Present Depok, Indonesia
- Managed and monitored 10+ IBM System enterprise servers, maintaining 99%+ uptime and high availability through proactive monitoring and rapid fault resolution. - Installed, configured, and maintained 50+ Virtual Machines and containers across VMware ESXi (vSphere) & Proxmox VE hypervisors. - Built a secure remote desktop environment using Apache Guacamole integrated with Active Directory Domain Controller (ADDC) for centralized student access. - Provided end-to-end IT support for 500+ students; prepared and deployed 100+ PCs and 100+ thin clients, including OS rollout, app configuration, and network IP provisioning.	

- Developed an IoT server room monitoring system (temperature, humidity, smoke) using ESP32 and Bardi smart devices with custom Flutter remote app.

Network Course Instructor & Person In Charge (Part-Time)

Oct 2023 – Present

Lembaga Pengembangan Komputerisasi (LePKom), Gunadarma University

Depok, Indonesia

- Delivered comprehensive Cisco networking instruction to **100+ learners per semester**, covering OSPF, BGP, EIGRP, VLANs, switching, TCP/IP, DNS, and network security.
- Led hands-on lab sessions configuring and troubleshooting Cisco routers and switches aligned with CCNA/CCNP industry standards.
- Authored official practical training module series (Fundamental, Beginner, Intermediate) for Cisco routing, switching, and network security for VmLePKom.

IT Infrastructure Core System & Broadcast (Internship)

Feb 2024 – Jun 2024

CNN Indonesia (Trans Media)

Jakarta, Indonesia

- Implemented and administered **Windows Server Active Directory Domain Controller (ADDC)** for centralized authentication and Group Policy management across the broadcast infrastructure.
- Configured and maintained high-throughput **NAS storage** for centralized video file sharing, access permissions, and automated backups supporting live 24/7 broadcast operations.
- Drafted the Broadcasting Resources Installation Manual and resolved server/network outages with zero broadcast interruption.

Network Engineer (Internship)

May 2021 – Sep 2021

Pushansiber Bainstrahan, Ministry of Defence (Kemenhan RI)

Jakarta, Indonesia

- Designed and implemented **load-balancing and redundancy solutions** using Cisco technologies (VRRP, GLBP) for national cyber-defense infrastructure.
- Contributed to the Pushan Siber national cyber-defense network topology and built secure Data Center network infrastructure.
- Configured and integrated **10+ Local Area Networks (LANs)** across client-server environments with SSH hardening, NAT, and VLAN segmentation.

KEY PROJECTS

AI Server Infrastructure Architecture — "SaveMe!" Platform

2026

- Architected a 4-tier enterprise infrastructure (General, AI, Realtime, Storage) powered by Dell PowerEdge R760xa to support **100,000 to 2,000,000 concurrent users**.
- Specified high-density AI compute nodes: 2x Intel Xeon Gold 6760P (128 cores), 1 TB DDR5 ECC RAM, **4x NVIDIA H100 PCIe 80GB GPU**, and NVMe RAID10 storage.
- Formulated official RAB (Rencana Anggaran Biaya) totaling **Rp 16,009,267,392** compliant with LKPP/INAPROC procurement standards.

Smart Tactical Body Camera — Undergraduate Thesis

2025 – 2026

- Engineered IoT tactical body-worn camera with ESP32-CAM and M10Q GPS, bypassing CGNAT via WebSocket Client Push Mode for low-latency video streaming to Node.js backend with FFmpeg evidence chain preservation.

VmLePKom Infrastructure Containerization & Modernization

2024 – 2025

- Migrated legacy multi-user Windows & Ubuntu VM environment into lightweight, isolated **Docker** containers, significantly slashing compute overhead for 500+ concurrent students.

EDUCATION & CERTIFICATIONS

Bachelor of Computer System (S1) — Gunadarma University, Depok

Sep 2022 – Sep 2026 (Expected)

GPA: **3.89 / 4.00** | Recipient of **Full Academic Scholarship**

Diploma in Computer System (D3) — Gunadarma University, Depok

Sep 2022 – Aug 2025

GPA: **3.89 / 4.00**

Vocational High School (TKJ) — SMK Perguruan Cikini, Jakarta

Aug 2019 – Aug 2022

Graduated as **Best Student / Highest Score** in Computer & Network Engineering major

Certifications: Computer Network Engineering (BNSP, 2025) • TOEIC English Proficiency (Score: 770/990, 2025) • Computer Engineering Training (P2KPTK2)