

# Zulkarman Syafrin

Jl. Karya Jaya Gg Eka murni ,Gedung Johor, **Medan** | zulkarman@gmail.com | +62-81376668886 +6281533388855  
<https://www.linkedin.com/in/zulkarman-syafrin-970231116/>  
website: <https://contest.ordasumut.or.id/zulkarman>

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## PROFILES

More than ten years of experience in information technology and telecommunications

I have passed several certification exams, such as those from Mikrotik and Cisco, especially on computer network expertise and wireless technology.

Besides that, I can configure servers with Linux operating systems, such as web servers, email servers, or file servers.

## Work Experiences

### ***NOC Network Engineer, PT. Hawk Teknologi Solusi Jakarta ( March 2014 – March 2015)***

- Carry out network development to spread the Internet to customers, such as POPs (points of presence), and ensure that these POPs support each other so that if one POP is not functioning, it will be replaced by another POP.
- Monitoring network availability and ensuring all network devices are working properly.
- Resolving customer complaints related to the quality of the Internet network and customer needs

### ***System Administrator, PT Natasolusi Pratama Jakarta, (February 2011 – February 2013)*** ***(Outsource at Badan Pertanahan Nasional (BPN) Pusat as a Linux System Administrator.)***

- Installing a computer network, including a fiber-optic network.
- Configuring RAID hard drive storage, Volume groups, and Logical Volume Manager (LVM) on a Linux server.
- Installing Windows Server 2008 and RHEL Linux servers
- Modifying kernel parameters on a Linux server
- Modifying kernel parameters on a Linux server
- Creating a domain controller, DNS Server, DHCP server, and group policy objects
- Installing and configuring IIS 7 on Windows Server 2008
- Installing SAMBA Server and Oracle databases on the Red Hat Enterprise Linux (RHEL) server
- Performing backups and restores of databases
- Performing monitoring of server performance, such as hardware, web servers, and security
- Administering the Oracle database system
- Installing the LDAP protocol on a Linux server as the Single sign-on (SSO) Solution

***IT and Telecom Officer, International Federation of Redcross and Red Crescent Societies , (March 2008 – December 2010)***

- Be responsible for the overall performance of the office's internet connection and computer network.
- Create a DHCP Server as a solution to the problem of automatic IP and create a filter layer 7 as a solution to the problems preventing the use of downloader software like Bittorrent, Edonkey, and Kazza.
- Make recommendations and proposals for system modifications and upgrades with a view to improving service availability.
- Performing the installation and maintenance of wireless and wired networks
- Administering Internet Connections for Local Area Networks and Monitoring Internet Connectivity
- Maintaining network infrastructure such as routers, switches, firewalls, VPN gateways, etc.
- Accurately maintain IT security-related system policies and configurations, such as firewalls, anti-virus systems, and content filtering systems, based on the organization's IT security policies and standards.
- Ensuring that all IT inventory is easily tracked
- Ensuring the stable operation of email servers and messaging systems and their corresponding hardware and software, including the telecommunication links.
- Preparing an emergency telecommunications system that will be operated in the area of a disaster, Like satellite phone, Radio Communication system (HF/VHF), and BGAN. Includes training for volunteers of the Indonesia Red Cross (PMI) to design a radio antenna in the event of a disaster.
- Installing the radio communication system using the HF band for long-distance communication and installing radio communication systems using the VHF band. Includes Programming a Codan radio and a Motorola radio.

***IT Specialist, Caritas Switzerland Aceh Singkil Reconstruction Project ( October 2006 – February 2008)***

- Making the installation of VSAT systems, satellite tracking
- Solving problems in Information Technology (IT) like viruses, network computers, sharing documents and printers, wireless LANs, and VSATs.
- Installing and configuring a Network Address Translation (NAT) Server, DNS Server, Apache Web server, Squid Proxy server, and e-mail server using the Linux operating system.
- Closing the ports used by chat programs such as mIRC and Yahoo Messenger and giving access to use chat programs to staff who obtain permission from superiors.
- Monitoring the internet traffic of internet service providers and restricting Internet access only for staff on duty or staff who obtain permission from superiors
- Creating a VPN network that is connected to the headquarters in Switzerland
- Building a VOIP communication system using the Asterisk software
- Processing assessment data using SPSS software in monev (monitoring and evaluation) activities
- Installing PABX and IP PBX Telephone systems
- Keeping IT inventory under control

***Field Engineer, PT. Pantja Indohitech Komputer Jakarta ( January 1990 – October 2006)***

- Creating a script like the Bourne shell script on Unix operating systems
- Installing the server and network systems based on UNIX operating systems
- Providing support for applications such as the Informix database for customers
- Performing installation. Configuration, maintenance, and performance tuning of the systems
- Performing repair and maintenance of IT equipment such as UPS, Line printers, and computers

## EDUCATION

- Bachelor Degree in Industrial Electronics, Polytechnic North Sumatera University, Aug 1986 - Sept 1989
- SMA Negeri 2 Medan, July 1982 – Apr 1985)

## Skills

- **IT Networking** : Routing static, OSPF, BGP, RIP, Load and Balance/High availability, VPN, MPLS
- **Web Development** : HTML , CSS, Javascript
- **Content Management System (CMS)** : Wordpress
- **Database** : Mysql, Postgresql
- **Data Visualisation** : Tableau
- **Geographic Information System** : ArcGIS, ENVI,

## Training and certification

YEAR	CERTIFICATION	Certificate Number
2014 & 2021	<b>MikroTik Certified Inter-Networking Engineer (MTCINE)</b> Topic : Border Border gateway protocol (BGP), and multi-protocol label switching (MPLS)	1412INE025 2109INE3816
2013, 2019, 2022	<b>MikroTik Certified Routing Engineer MTCRE</b> Topic : VPN (IPIP, EoIP), Virtual LAN (VLAN), Load and Balance (ECMP, Nth, and PCC), Static Route, RIP Dynamic Route, and OSPF	1308RE065 1901RE9970 2204RE1814
2012, 2017 & 2021	<b>MikroTik Certified User Manager Engineer – MTCUME</b> Topic : VPN (PPP, PPTP, L2TP, OpenVPN, PPPoE, SSTP), Advanced Hotspot System, and RADIUS	1212UME019 1710UME3633 2109UME2658
2011, 2014, 2021	<b>MikroTik Certified Traffic Control Engineer MTCTCE</b> Topic : Internet Security (DHCP, DNS, Proxy, Firewall), QoS (Packet Flow, and Bandwidth Management)	1104TCE023 1405TCE076 2108TCE2426
2010, 2013, 2017	<b>MikroTik Certified Wireless Engineer MTCWE</b> Topic : Designing link point to point, point to multi point wireless Network (outdoor and indoor) , WDS, MESH	1012WE008 1311WE060 1703WE025
2010, 2013, 2017 2021	<b>MikroTik Certified Network Associate MTCNA</b> Topic : Basic Networking with MikroTik, NAT, Basic Firewall, Basic Quality of Services (QoS)	1011NA061 1311NA460 1703NA312 2109NA3818
2019	<b>Ubiquiti Enterprise Wireless Admin (UEWA)</b> Training on how to do site surveys, WLAN planning, and centrally managing wireless.	

## TRAINING & COURSE

<b>YEAR</b>	<b>TRAINING TOPICS</b>	<b>ORGANIZER</b>
June 2023	<b>Cisco Certified Network Associate (CCNA)</b>	Graha Karya Jakarta
May 2023	<b>CCNAv7 Enterprise Networking Security and Automation</b> Topic : OSPFv2, Acces Control List, NAT, QoS	Cisco Network Academy Mitra Indonesia University Lampung
April 2023	<b>CCNAv7 Switching, Routing and Wireless Essential</b> Topic : VLAN, Etherchannel, Ipv6, Redudancy, Wireless Controller	Cisco Network Academy Mitra Indonesia University Lampung
March 2023	<b>CCNAv7 Introduction To Networks</b> Topic : OSI Layer, Ipv4, Ipv6 , Configure a Small Network	Cisco Network Academy MitraIndonesia University Lampung
March 2023	<b>Spatial Data Visualization with Tableau</b>	Langen Teknik Satria Jakarta Certificate # 011-GIS- TABLEAU/LTS/III/2023
February 2023	<b>WebGIS training using LeafletJS and Codelgniter</b>	GeoLeaflet Indonesia Certificate #0345-02/02/2023
December 2022	<b>Disaster thematic GIS using ArcGIS software</b>	Geospacial Certificate # 597/12/GIS/GEOEDU/22
September 2022	<b>Google Earth Engine: Land cover identification using supervised classification</b>	GeoAccess Indonesia Certificate #1037- P/GEOACCESS/X/2022
July 2022	<b>Remote Sensing</b> Topic : Make maps using satellite imagery and aerial photography using drones.	Geospacial Cert. # 431/07/REMOTE/GEOEDU/22
June 2022	<b>Advanced Level 2 ArcGIS , Geographic Information system</b> Topic: Create a geographic information system using the model builder.	Geospacial Certificate # 377/7/GIS/GEOEDU/22
May 2022	<b>Basic Level 1 ArcGIS , Geographic Information Syatem</b>	Geospacial Certificate # 352/6/GIS/GEOEDU/22