Mostafa Saleh

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Cairo, Egypt | Military Status: Completed.

OBJECTIVE

Highly-motivated Computer Engineering graduate. Seeking a dynamic role in Network Engineering provides opportunities for growth, continuous learning, and collaboration. My key interests include IT Infrastructure, Network & Cloud Architecture, System Administration, Internet Protocols and Network Security.

EDUCATION

Bachelor of Electrical Engineering – Computer and Control Engineering Department

@ Higher Institute of Engineering and Technology Kafrelsheikh, *Kafrelsheikh, Egypt.*   *2018 – 2023. 5 yrs.*

- **Major GPA:** 3.5/4.0 (85%)
- **Cumulative GPA:** 3.0/4.0 (74%)
- **Graduation project grade:** Excellent
- **Relevant Coursework:** Network Architecture, Cloud Solutions, Operating Systems, Automation, Distributed Systems, Electronics, Communication Engineering, Programming, Data Structures and Algorithms

Graduation Project: Intelligent Mobile Robot, GitHub   *Jun 2022 - Jul 2023. 1 yr.*

- Designed an autonomous indoor mobile robot, named IMR, with a mounted arm for picking and placing objects and assisting in warehouse tasks, using odometry and Kinect v2 for mapping. It operates autonomously via AMCL, wired and wirelessly, and supports ROS (Robot Operating System).

SKILLS

Technical Skills:

- **Routing & Switching:** TCP/IP, OSI Model, IPv4/IPv6, Subnetting, Layer 2/3 Switching (ROAS, SVI, VRF, VLAN, EtherChannel), QoS, VXLAN, Route Summarization, FHRP (HSRP, VRRP, GLBP).
- **Network Protocols:** OSPF, EIGRP, BGP, STP/RSTP/PVST/MST, LACP/PAgP, MPLS, DHCP, DNS, NTP, NAT/PAT, GRE, PIM, IGMP, UDP, TCP, ICMP, ARP, NFV, FTP/TFTP.
- **Network Security:** ACLs, IPsec, AAA (TACACS+, RADIUS), Port-Security, SSH, ARP Inspection, DHCP Snooping, BPDU-Guard.
- **Troubleshooting Tools:** Wireshark, Cisco Packet Tracer, GNS3, SNMP, Syslog, CDP/LLDP, Route-maps, IP SLA (Service-Level Agreement).
- **Virtualization:** VMware, Hyper-V, VirtualBox, Nested Virtualization, Hyper-V Replica.
- **Cloud & Containers:** Kubernetes, Docker, Cloud-Native Architecture.
- **Windows Server:** Active Directory, Group Policy, Domain/Forest Management, NTFS/ReFS, Storage Spaces, Storage Pools, FSRM, WSUS, WDS, iSCSI SAN, Failover Clusters.
- **Infrastructure Management:** VPN, Backup Solutions, Performance Monitoring.
- **Operating Systems:** Windows (Server, Personal), Linux (CLI, GUI), Unix (FreeBSD).
- **Programming:** Python, JavaScript, C, C++, C#, Structured Query Language (SQL).
- **Scripting:** PowerShell, Bash scripting.
- **Tools:** Git, GitHub.

Soft Skills:

- **Languages:** English: Fluent (Written & Spoken), Arabic: Native.
- **Interpersonal Skills:** Adaptability, Resilience, Problem-solving, Working under pressure, Teamwork, Communication, Troubleshooting, Fast typing (66 WPM), Leadership.

EXPERIENCE

IT Specialist Soldier @ Ministry of interior, *Kafrelsheikh.*   *Jan 2024 – Feb 2025. 1 yr. 2 mos.*

    IT Help Desk Soldier @ Security Directorate.   *Oct 2024 – Mar 2025. 5 mos.*

- Promoted to IT Help Desk for the Office of the Security Manager.
- Providing technical support, ensuring seamless IT operations, and resolved over 5 IT issues per day.

    CCTV Technician Soldier @ Administration of Security Forces.   *Jan 2024 – Sep 2024. 9 mos.*

- During my national service, I held the position of Head Soldier of the CCTV and Security Office.
- Managed system maintenance, surveillance, and security operations.

TRAINING & COURSES

Training & Internships:

    Intern @ Telecom Egypt (WE), *Alexandria, Egypt.*   *Jul 2021 – Sep 2021. 2 mos.*

- Gained hands-on experience with FTTH networks, fusion splicing techniques, structure, connection and traffic devices, including PCM, WDH, SDH, and WDM.

    Trainee @ AIOT, *Kafrelsheikh, Egypt.*   *Jul 2022 – Sep 2022. 2 mos.*

- Developed a YOLOv7-based model for **real-time detection of broiler pathologies** using CNNs and multimodal imaging (visible/thermal) in intensive poultry environments.
- Collaborated to build and train high-accuracy datasets, ensuring data integrity and optimizing model performance for real-time health monitoring via computer vision and infrared thermal imaging.

    Aspire leadership Program @ Harvard Aspire Institute, *Remote.*   *8 Jan 2025 – 11 Mar 2025. 2 mos.*

- Advanced leadership training in strategic decision-making, ethical leadership, and conflict resolution.
- Applied data-driven problem-solving, networking, communication, and cross-cultural team projects.

Courses & Self-Study:

- CCNA 200-301 Prep (81 hours) (SNL Remote training).
- CCNP ENCOR 350-401 Prep (63 hours) (SNL Remote training).
- CCST Network Prep (70 hours) (Cisco Networking Academy).
- Windows Server 2019 Administration (22 hours) (Udemy).
- Fundamentals of Operating Systems (Self-Study).
- Introduction to Git and GitHub (27 hours) (Coursera).
- Crash Course on Python (31 hours) (Coursera).
- Huawei HCCDA Cloud Native Training (Remote Training).
- Introduction to DevOps (9 hours) (Coursera).
- Technical Support Fundamentals (23 hours) (Coursera).

VOLUNTEERING

Event Coordinator @ Momenta, *Kafrelsheikh, Egypt.*   *Oct 2019 - Oct 2021. 2 yrs.*

- As a member of Momenta team during my studies at the institute. I contributed to organizing events, coordinating contests and seminars for my colleagues.

Translator @ Coursera (GTC), *Online.*   *Aug 2021 – Oct 2021. 2 mos.*

- Contributed to translating 14,364 words on Coursera Global Translator Community (GTC) before it was deprecated.