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Network Engineer

CONTACT

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EDUCATION

- **Mansoura National University**
- Communications and Computer Engineering
  Expected Graduation Year : 2028

Certifications / INTERNSHIP

- **Network infrastructure**
  120 Hour
  National Telecommunication
  Institute (NTI)
- **Networking Fundamentals:** OSI
  Model, switching, routing,
  LAN/WAN/WLAN
- **IP Addressing:** IPv4/IPv6, subnetting,
  NAT, DHCP
- **Network Services:** DNS, ACL, NTP, SDN
- **Wireless Networking:** IEEE 802.11
  standards, IoT topologies, wireless
  security
- **Network Security:** AAA, MFA,
  encryption, DoS, phishing, MITM, rogue
  APs
- **Troubleshooting:** CLI tools (ping,
  tracert, ipconfig), wired & wireless
  issues
- **Hands-On Labs:** Network design,
  configuration, and simulation using
  virtual machines & Cisco Packet Tracer

PROJECTS

• **Practical Network Infrastructure Project –
NTI Internship**
Designed and configured simulated network
topologies during a 120-hour hands-on training
program at the National Telecommunication
Institute (NTI).
Key practical components included:

- Building network topologies using Cisco
  Packet Tracer
- Configuring IPv4 & IPv6 addressing and
  subnetting
- Implementing static and dynamic routing
- Setting up network services (DNS, DHCP,
  NAT, ACL)
- Securing wireless networks (WPA2, MAC
  filtering, SSID hiding)
- Simulating cyberattacks (e.g., DoS,
  phishing, MITM) and applying mitigation
  techniques
- Troubleshooting wired/wireless networks
  using CLI and network monitoring tools
- Documenting and testing network designs
  in virtual environments

SKILLS

Technical Skills:

- Network Configuration (IPv4, IPv6, Subnetting, NAT, DHCP, ACL)

- Routing & Switching (Static & Dynamic)

- Wireless Networking (802.11 Standards, Wi-Fi Security)

- Cisco Packet Tracer & Network Simulation Tools

- Basic Linux & Windows Administration

- Network Security Fundamentals (AAA, MFA, Threat Detection)

- Command Line Tools: ping, tracert, ipconfig, netstat, etc.

- Troubleshooting Wired & Wireless Networks

- Documentation & Network Design

Soft Skills:

- Problem Solving & Analytical Thinking

- Teamwork & Collaboration

- Time Management

- Adaptability

- Good Communication Skills

Tools

Technical Skills with Tools

- **Network Configuration**
  Tools: Cisco Packet Tracer, GNS3, Wireshark

- **Routing & Switching (Static & Dynamic)**
  Tools: Cisco IOS CLI, Routers & Switches

- **IP Addressing (IPv4, IPv6, Subnetting, NAT)**
  Tools: Subnetting Calculators, Command Prompt, Packet Tracer

- **Wireless Networking (802.11 Standards, Wi-Fi Security)**
  Tools: Wi-Fi Analyzer, Packet Tracer

- **Network Simulation & Design**
  Tools: Cisco Packet Tracer, GNS3, EVE-NG, Draw.io, Visio

- **Troubleshooting (Wired & Wireless)**
  Tools: ping, tracert, ipconfig, ifconfig, netstat, Wireshark

- **Network Services (DNS, DHCP, ACL, NTP, SDN)**
  Tools: Packet Tracer Simulations, Linux Terminal

- **Network Security Basics (AAA, MFA, Threats)**
  Tools: Kali Linux, Wireshark, Nmap, MFA Apps (e.g., Google Authenticator)

- **Basic System Administration (Windows & Linux)**
  Tools: Windows Admin Tools, Linux Terminal, VirtualBox

- **Documentation & Reporting**
  Tools: Microsoft Word, Excel, Visio, Draw.io

LANGUAGE

- Arabic : **Native Tounge**
- English : Basic