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Professional Summary

Results-driven Communications and Electronics Engineer with expertise in submarine optical fiber cable operations, telecommunications, and network infrastructure management. Currently a Submarine Optical Fiber Cable O&M Engineer at Telecom Egypt, overseeing high-capacity submarine cable systems, including 2Africa Submarine Cable and Trans Egypt Meshed Solution (TEMESH) projects. Skilled in network troubleshooting, security systems, and IT infrastructure, with a strong ability to optimize system performance and reliability. Adept at vendor coordination with Alcatel, Ciena, and Cisco to ensure seamless operations. Passionate about enhancing connectivity and operational efficiency through large-scale infrastructure projects.

Education

Bachelor's Degree in Communications and Electronics Engineering. The Higher Institute of Engineering and Technology in New Damietta *(2016-2021) – Very Good*

Work Experience

Submarine Optical Fiber Cable O&M Engineer
Telecom Egypt   *Jul 2023 – Present*

- Operate and maintain submarine optical fiber cables, ensuring **99.9% uptime** for uninterrupted data transmission.
- Conduct proactive inspections, testing, and troubleshooting, reducing downtime by **30%**.
- Collaborate with global telecom operators for fault management and rapid repair operations, enhancing network stability and reducing issue resolution time by **40%**.
- Analyze network performance metrics, implementing improvements that reduced latency by **15%** and enhanced bandwidth efficiency by **25%**.
- Lead **2Africa Submarine Cable** and **TEMESH projects**, optimizing network infrastructure in partnership with Alcatel, Ciena, and Cisco, achieving a **20% improvement** in transmission capacity.
- Developed **standard operating procedures (SOPs)** for maintenance protocols, increasing efficiency by **20%** and reducing maintenance costs by **15%**.

Project Engineer
Freelance   *May 2019 – Jul 2023*

- Designed and deployed low-voltage security systems (CCTV, IP cameras, access controls, and fire alarms) for **50+ high-profile projects**.
- Installed and maintained security and alarm systems for **Kapci Coatings Factory, June 30 Customs Port, Helnan Port Fouad, and Port Fouad District Council**, reducing security breaches by **35%**.
- Responsible for implementing cost-effective security system upgrades, reducing maintenance expenses by **20%** and improving reliability by **30%**.
- Provided technical consultation on system integration and performance optimization, increasing operational efficiency by **25%**.

IT Specialist & Head of Computer Department
Golden Horse for Import and Export   *Jul 2017 – Feb 2022*

- Managed all IT operations and network infrastructure.
- Conducted comprehensive site surveys to evaluate IT infrastructure requirements, ensuring optimized deployment and performance.
- Oversaw a team of IT specialists and provided technical support.
- Responsible for hardware and software procurement, installation, and maintenance.
- Ensured data security and implemented disaster recovery plans.

Certifications & Workshops

Alcatel Submarine Networks Training
- 2Africa ASN Wet Plan, SN 10.6.x, COTDR R8. Type B2 Training   [Link]
  - Submarine Repeater R5 Description, Branching Unit R5.x Description
  - SN 10.6.x Operation and Maintenance
  - C-OTDR R8.0.x Operation & Maintenance
- AFRICA-1 Type A V-class   [Link]
  - AFRICA-1 System General Description
  - PFE R4.6 Description, SN10.7 Description
  - Submarine Repeater R5 Description, Branching Unit R5.x Description
  - Submarine WSS R-OADM Unit R6 Description
  - 1620 SOFTNODE Fiber Portal & SLTE Description

Ciena Corporation
- 6500 Custom Submarine RLS   [Link]

Telecom Egypt
- DWDM   [Link]
- OTN Technology   [Link]
- Ethernet Over SDH   [Link]

Autodesk
- AutoCAD   [Link]

Huawei Academy
- Cloud Computing (HCIP)   Link
- Cloud Computing (HCIA)   Link
- Big Data (HCIA)   Link
- Artificial Intelligence (HCIA)   Link
- 5G (HCIA)   Link
- Data Communication (HCIA)   Link

Dahua Technology
- DHCA – Dolynk Cloud Management System Certified Engineer   Link
- DHCA – VIS Intelligent Building System Certified Engineer   Link
- DHCA – IPVSS Video Surveillance System Certified Engineer   Link

Cisco Networking Academy
- IT Essentials   Link

American University of Science
- International Certified Training   Link
- Soft Skills   Link
- IT Core Test   Link
- Business Management   Link
- Conversational English   Link

CMAS Diving Certifications
- Surface Supplied Inshore Air Diver – Level 2   Link
- Underwater Welding & Underwater Electronic Welding   Link

LinkedIn Learning:
- Career Essentials in Cybersecurity by Microsoft   Link
- Certified Associate in Project Management CAPM   Link
- Electrical Systems Communications and Data   Link
- Fundamentals of Cisco Networking   Link
- Planning for Successful Project Management   Link

Oil & Gas Summer Internship (Marietta College, PioPetro, SPE Egypt, Arab Guru)   Link
- AI Application in Petroleum Engineering   Link
- Enhanced Oil Recovery   Link
- Field Development Geomechanics   Link
- Introduction to Hydraulic Fracturing Technology   Link
- Introduction to Well Stimulation   Link
- Quantitative Data Analysis for Undergraduate Students   Link

HP LIFE e-Learning
- Basics of Finance   Link
- Cash Flow   Link
- Finding Funding   Link
- Sales Forecasting   Link
- Profit and Loss   Link
- Social Media Marketing   Link

Hard Skills

- Submarine Optical Fiber Cable Operations and Maintenance
- Telecommunications & Network Infrastructure (Optical Fiber, Submarine Cables, Network Troubleshooting, Security)
- DWDM, Optical Transport Technologies optical networking solutions.
- Remote Network Monitoring & Troubleshooting – Expertise in monitoring and diagnosing submarine and terrestrial network issues remotely.
- Hardware Configuration & Testing – Hands-on experience with configuring and testing optical transmission equipment and submarine cable hardware.
- Site Survey & IT Infrastructure Assessment
- SCADA Systems & IoT Technologies
- Low-Voltage Security Systems (CCTV, IP Cameras, Fire Alarms, Access Control)
- Cloud Computing & IT Systems (Huawei Cloud, Microsoft Office Suite)
- Project Management & Vendor Coordination (Alcatel, Ciena, Cisco)
- Programming & Data Analysis (HTML, CSS, Signal Processing)
- Presentation & Productivity Software (Microsoft Excel, PowerPoint, Outlook, Photoshop)
- Technical Documentation & SOP Development
- Network Automation & Monitoring
- Optical Transport Network Troubleshooting
- Submarine Cable Route Planning & Maintenance
- Underwater Communications & Commercial Diving Technologies
- Cybersecurity & Data Protection in Telecom Networks

Soft Skills

- Strong Analytical & Problem-Solving Abilities
- Effective Communication & Team Collaboration
- Leadership & Project Coordination
- Time Management & Multitasking
- Adaptability & Attention to Detail
- Crisis Management & Troubleshooting
- Process Optimization & Continuous Learning

Languages

- Arabic: Native
- English: Fluent

➢ *Note That: Certificates and courses may have a Hyperlink.*