




MOE ELASMAR

MSc CYBER SECURITY (*ongoing*) | NETWORK SPECIALIST | TECHNICAL EXPERT |
CLOUD SECURITY | PENTESTING

CONTACT

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 moe@melasmar.com
 Moe Elasmar
 Sydney, AU - AU Citizen

SOFT SKILLS

Problem Solving
Analytical Thinking
Detail-Oriented
Knowledge Sharing
Critical Thinking
Team Collaboration

TECHNICAL SKILLS

Network Engineering
5G, LTE, UMTS, GSM
Network Security
Penetration Testing
Cloud Security
VMware, Docker
Python, PowerShell, SQL
Kali Linux, Ubuntu
Burp Suite, Nmap, Nessus,
OpenVAS, Wireshark,
Metasploit, SET
Identity and Access
Management
Technical Reporting
Generative AI

PROFESSIONAL OVERVIEW

As a professional grounded in telecommunications and advancing in cyber security, I blend technical competence with my passion for security. My experience has sharpened my collaborative spirit, detail-oriented approach, and pressure resilience, earning praise for my positivity, diligence, and integrity. My journey is defined by continuous learning, keeping me agile the fast-evolving tech landscape.





Currently, I'm enhancing my cyber security learning through a Master's degree, having already completed Certificate IV. My education and hands-on security experiences, enriched self-development activities, like, Capture the Flag (CTF) and platforms like TryHackMe and Hack the Box, have broadened my field understanding. I've explored the principles of security engineering, data security and privacy, cyber security ethics, cloud security, and penetration testing, preparing me for a cybersecurity career. This blend of academic and practical insights positions me to contribute effectively to the information security realm.

QUALIFICATIONS

- Master in Cyber Security, **University of New South Wales**, Sydney, Australia *expected to be concluded in 2025*
- Grad Cert in Cyber Security, **University of New South Wales**, Sydney, Australia *Grade: Distinction*
- Certificate IV in Cyber Security, **TAFE NSW**, Sydney, Australia
- Bachelor of Sciences in Electronics and Communication Engineering, **Mansoura University**, Mansoura, Egypt



CAREER SUMMARY

Title	Date	Company	Location
▪ Network Engineering Specialist	Sep 2022 - Present	Accenture	Sydney, Australia
▪ RF planning & optimisation engineer	Aug 2019 - Sep 2022		
▪ Data Analytics Engineer	Aug 2018 - Aug 2019	P3 Group	Sydney, Australia
▪ Technical Expert Engineer	Jul 2017 - Aug 2018		
▪ Network Operations Centre (NOC) Lead	Jan 2016 - Dec 2016	Eaton Towers 	Cairo, Egypt
▪ Senior Network Performance Analyst	Feb 2011 - Jan 2016	Orange Telecom	Cairo, Egypt
▪ Network Operations Centre (NOC) Engineer	Feb 2008 - Feb 2011		

CAREER HISTORY

Sep 2022 – Present. Network Engineering Specialist, Accenture.

Responsibilities:

- Performed security audits for national and international telecom infrastructures.
- Led benchmarking for network performance across local and international service providers.
- Designed 5G coverage predictions for new site rollouts.
- Analysed end-to-end network performance for LTE & 5G.
- Developed optimisation strategies for RAN, Transmission, and Core networks.

MOE ELASMAR

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CERTIFICATION

ISC2-CC

CCNA (200 – 125)

ITIL v4 Foundations

FRAMEWORKS

ISO27001

NIST

OWASP®

MITRE | ATTA&CK®

Lockheed Cyber Kill-Chain®

REFERENCES

Available upon request

CAREER HISTORY (continue)

Achievements:

- Identified and addressed critical RAN/Core network security vulnerabilities.
- Deployed advanced security protocols, enhancing 5G deployment and data security to ensure data integrity and confidentiality.
- Enhanced VoLTE speech quality by a 21% increase from 3.7 to 4.5 Mean Opinion Score (MOS), improving voice service quality.
- Improved network benchmark scores by 4.4% from 825 to 861, optimizing voice/data services.
- Successfully trialled GSM900 to LTE900 refarming, achieving capacity enhancement.

Aug 2019 - Sep 2022. RF planning & optimisation engineer, Accenture.

Responsibilities:

- Conducted RF Security analysis and robustness testing.
- Managed Radio Network rollout, including Automatic Cell Planning (ACP) and RF clean-up.
- Reviewed performance KPIs for Huawei and Ericsson networks globally.

Achievements:

- Detected critical Air Interface security vulnerabilities in GSM/UMTS/LTE for several APAC telecom operators, recommending banning unencrypted protocols and enhancing authentication to protect against interception and cryptographic attacks.
- Enhanced LTE coverage (RSRP) by 11% and reduced interference (SINR) by 5% via ACP, improving spectral efficiency in key service areas.
- Rectified telecom site database discrepancies, improving data accuracy for optimization tools and enhancing network performance recommendations.
- Collaborated with my team to develop innovative, comprehensive training materials on cluster optimization for customers.

Aug 2018 - Aug 2019. Data Analytics Engineer, P3 Group.

Responsibilities:

- Executed in-depth analysis for VoLTE, IMS, and EPC Core issues.
- Identified failure patterns in service KPIs.
- Processed and visualized drive test data to optimize KPIs.

Achievements:

- Integrated drive test insights, achieving network coverage and capacity enhancement by 10%.
- Reduced network downtime by 15% with proactive data-driven optimization strategies.
- Created visually compelling dashboards, improving data visibility and decision-making.

Jul 2017 - Aug 2018. Technical Expert Engineer, P3 Group.

Responsibilities:

- Conducted network device penetration testing.
- Assessed IDS/Firewall security with Denial of Service (DoS) and Distributed (DDoS) testing.
- Configured and adapted Windows/Linux server measurement systems according to the use cases needed.
- Developed and automated testing tasks and scripts using PowerShell, Python, and Android Shell
- Provided L1/L2 support for user issues in drive testing campaigns.

CAREER HISTORY (*continue*)

Achievements:

- Identified critical network third-party devices' vulnerabilities and backdoors.
- Reported risks, aligning with ISO 27001 and NIST standards for mitigation, ensuring adherence to global cybersecurity best practices.
- Optimized server systems, employing VMware virtualization to replace Intel NUC servers, and thereby enhancing system efficiency and reducing operational costs.

Jan 2016 - Dec 2016. NOC Lead, Eaton Towers

Responsibilities:

- Led the NOC team, managed shifts and ensured 24x7 coverage.
- Allocated team responsibilities for optimal resource use and network performance.
- Mentored team members, facilitating skill development and knowledge transfer.
- Managed network system upgrades and enhancements.

Achievements:

Developed processes and procedures to enhance NOC's capabilities.

- Improved SLA performance by 17% and reduced trouble ticket Mean Time to Repair (MTTR) by 9%, leading to a 21% decrease in site maintenance costs.
- Developed a comprehensive training manual for the monitoring and escalation process on Nokia and Huawei monitoring tools, enhancing team efficiency and knowledge transfer.

Feb 2011 - Jan 2016. Senior Network Performance Analyst, Orange Telecom

Responsibilities:

- Generated network performance reports for strategic decision-making for enhancements and maintenance.
- Analysed and determined the root causes of network outages by identifying underlying trends and patterns.
- Ensured compliance with Orange's standards for vendors' network deployments.
- Handled customer complaints and proposed network solutions for their resolution.

Achievements:

- Effectively identified and resolved key causes of network quality issues such as dropped calls and call failures, notably tracing 40% of BTS quality problems to Digital Radio Interface (DRI) outages and implementing targeted solutions.
- Developed and implemented the troubleshooting scripts for handling faulty DRIs, cutting troubleshooting time to under 10 minutes, reducing human error, and boosting network call capacity by 15%.

Feb 2008 - Feb 2011. NOC Engineer, Orange Telecom

Responsibilities:

- Utilised different information and event management tools for network monitoring.
- Performed incident response to network incidents promptly and efficiently.
- Identified the severity of the incident quickly to minimize the impact on the network.
- Provided remote support to field engineers and communicated technical details and incident reports to both technical and non-technical stakeholders.

Achievements:

- Managed critical network monitoring and incident response during the Egypt's 2011 revolution, maintaining network stability and minimizing outages under high-demand conditions.
- Played a key role in assessing incident severity and implementing swift actions to ensure network resilience and uninterrupted communication during political unrest, leading to a promotion to senior network performance analyst in recognition of my achievements.