Contact

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Top Skills

Project Management
Networking
Information Security

Languages

Arabic (Native or Bilingual)
English (Full Professional)
Bokmål, Norwegian (Elementary)

Certifications

CompTIA PenTest+
Introduction To FIN6 Emulation Plans
SIEM Design and Implementation
Project Management Professional
Mapping MITRE ATT&CK to CVE for Impact

Honors-Awards

Graduated as 1st of Computer Engineering Class
Best Ethical Hacker

Publications

Cyber-Physical Tracking of IoT devices: A maritime use case
Applications of an Online Audience Response System in Different Academic Settings: An Empirical Study
Double-Hashing Operation Mode for Encryption
IoT Vulnerability Scanning: A State of the Art

Ahmed Amro

Research Fellow i Norges teknisk-naturvitenskapelige universitet (NTNU)
Gjøvik, Innlandet, Norway

Summary

Researcher in IT & OT cyber security with experience in computer network administration.
Research interests include:
- Communication and Cyber security of Autonomous systems.
- Cryptography (Cryptographic Functions, Encryption, PRNG, and Hashing)
- Network traffic analysis
- TLS protocol security
- Web application security

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Experience

Norges teknisk-naturvitenskapelige universitet (NTNU)
4 years 3 months

PHD Candidate
November 2018 - Present (4 years 3 months)
Gjovik, Norway

PhD Candidate working on the Communication and Cyber security of Autonomous Ferries

Research Fellow
November 2018 - Present (4 years 3 months)
Gjovik, Norway

Ministry of National Economy, Palestine
Head of Network Department
December 2010 - November 2018 (8 years)
Ramallah, Palestine

Computer Engineer
1. Servers Administrator (Windows Server 2003, Windows Server 2008, Ubuntu 10.04.4)
2. Kaspersky Antivirus Administration Kit.
3. Active Directory, DHCP, DNS.

Cyber risk management for autonomous passenger ships using threat-informed defense-in-depth

Patents

An Improved Method for PRNG-Based Text Encryption

Selective information extraction from network traffic traces both encrypted and non-encrypted

Double-Hashing Operation Mode For Encryption

4. Microsoft Exchange 2010.

5. Forefront Threat Management Gateway (TMG)

6. Printers and Scanners Server Administration.

7. LMS: Cisco LAN Management Solution.

8. Cisco Network Assistant.

9. CNB Security Surveillance.

10. OCS Inventory.

11. Symantec Backup Exec 2010.

12. GFI Mail Essentials: Anti-Spam Solution for Exchange.

13. X-Road Security Server & MISP Server: Estonian System for Data Exchange.

14. Helpdesk: providing support for over 160 employees in the ministry and 300 outside over the phone.

15. Date Backup: Using SAN Storage and DELL PowerVault Ultrium LTO 4 Tape.

16. Printers and Scanners Maintenance: Kyocera, HP, Canon, UTAX, Toshiba, Printers, Scanners, Multifunction, etc.

17. Computers Maintenance: Dell, HP, Siemens, Acer, IBM, Lenovo, Compaq, Laptops, PCs.

18. Network Storage: Using Dell PowerVault MD3000i SAN Array and PowerVault MD1000 Direct Attached Storage.

19. Network Administrator: Cisco Routers and Switches, Cisco IPS, Wireless Wi-Fi, Cisco ASA Firewall, Nortel Optical Multiservice Edge 6110. VPN, VLANs, etc.

20. Research and Development.

21. VoIP Administrator: Designing and implementing Cisco VoIP System with Cisco IPPBX C2801 and Cisco C2960 POE Switches and Cisco 7911 ,Cisco 7945 IP Phones, also Cisco Unified Communications System 11. The System is built in multiple geographically distant locations. Monitoring and solving problems from the ministry building using Telnet.

22. Virtualization Administrator: Designing and Building Virtual Environment using VMware VSphere, VCenter.

23. Security Administrator: Implementing and Tuning Cisco ASA 5510 and Cisco IPS 4420 and other security levels (TMG, Kaspersky Antivirus, and GFI Anti-Spam) to insure Information Security.

Palestine Polytechnic University
Lab Instructor
September 2010 - December 2010 (4 months)

• Computer Laboratory Instructor.

1. Basic Database Laboratory (Oracle Database Express Edition 10g, SQL).

2. Computer Basics (DOS, Office Applications, Windows Applications)

3. C++ Programming.

4. Data Structure Laboratory with C++.

• Discussions teacher (Networking, Data Structure, C++ Programming)

• Web site developer (PHP).

Education

Norwegian University of Science and Technology (NTNU)
Doctor of Philosophy - PhD, Cybersecurity · (November 2018 - November 2022)

King Fahd University of Petroleum & Minerals
Master's Degree, Computer and Information Systems Security/Information Assurance · (2014 - 2017)

Palestine Polytechnic University
Bachelor of Engineering (B.E.), Computer Engineering · (2005 - 2010)