CYBER SECURITY AND RESILIENCE SYMPOSIUM | TOWARDS A RESILIENT AVIATION CYBERSPACE

AMMAN, JORDAN | 15-17 OCTOBER 2019

Session 4- IT Cyber Threats and Risks

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Moderator: Mrs. Sonia El Sakka

ICAO MID Office

ICT & Marketing Regional Coordinator

- **Major Threats and Risks in 2020**
  Mr. Mohammad A. Alkhudari, CEO – Green Circle for Cyber Security

- **IoT Security and Privacy Challenges**
  Mr. Adel Abdel Moneim, ITU-ARCC Cyber Security Expert

- **How to Identify Cyber Threats and Risks in any IoT architecture**
  Mr. Ayman Khalil, Managing Partner and COO Red Alert Labs

- **Cyber Analytics in Aviation**
  Mr. Omar Sherin, CNIs and OT Cybersecurity Expert Ernest & Young

- **Defending Airports against Emerging Ransomware Attacks**
  Mr. Ayed Al Qartah, Security Technical Solutions Architect Cisco Systems

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Mrs. Sonia El Sakka

- Mrs. Sonia El Sakka is the Information Communication Technology Regional Coordinator for ICAO Middle East Regional Office and ICAO certified trainer.

- Prior to joining ICAO, Sonia worked as system engineer in IBM and the league of Arab States.

- Sonia holds a Bachelor of Science in Computer Science and Master's degree in Business Administration (MBA) with highest Honors from the American University in Cairo; with extensive focus on Information Technology, Business Process Reengineering, and Project Management.

Mr. Mohammad A. Alkhudari

Currently working as CEO, responsible for achieving the company vision and mission by build the plans and setting strategic goals and making sure they are measurable and describable. Assessing risks to the company and ensuring they are monitored and minimized, in addition for building the Cyber Security Product strategy and market strategy including all services for Managed Security Solutions.

Also working on building strategies and market plan for building the new era of Digital based Education with focus on outcomes and usage of latest technologies including AI (Artificial Intelligence) and AR/VR (Augmented and Virtual Reality) content development.

Also worked before as Hybrid IT Manager leading the Hybrid IT Division, where responsible about business development including Converged Systems, software and Cloud. Responsible for country cloud business, planning, customer facing, in addition to cloud implementation and Post sales supervision.

BSc. Degree 2004, in Computer Engineering, From Philadelphia University.

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Mr. Adel Abdel Moneim

Mr. Adel Abdel Moneim, Registered ITU-ARCC Cybersecurity Expert, has over 22 years of experience in the IT / Cyber Security fields, spending most of his career in Information Security Consultation and Training, IFSEC Global Influencer 2019" Thought Leader" Becoming the first Licensed Penetration Tester (LPT) in Egypt (2008), it comes as no surprise that Adel has been awarded the Instructor of the year / Circle of Excellence awards from EC Council for Africa / Middle East regions eight times between 2008 and 2016.

Adel is an international certified trainer from ISC2, ISACA, EC-Council, PECB and CIW who has delivered hundreds of official training courses and workshops. He maintains an exceptional track record of excellent feedback throughout his course delivery, be it at multinational companies, academic / training entities or law enforcement / military institutions, in the areas of Pen-Test, Digital Forensics, Risk Assessment and Management, ISO Standards Implementation/Audit or Security Governance and Compliance.

Capitalizing on his proven expertise and hands on experience in executing security Governance, risk assessments, compliance, conducting security audits, assessing effectiveness of controls, ISMS, Data Privacy, Incident Response, Digital Forensics and Cyber Operation, Adel successfully provides consultation for large enterprise security projects in various government / industry verticals serving many reputable organizations and companies nationally, regionally and internationally.

In a strive to continually rise cyber security awareness, Adel has dedicated hundreds of hours to voluntary work, providing the governmental sector, NGOs and the technical communities with his experience and knowledge in the field. As a Public Speaker he is often requested to share his knowledge as a keynote speaker, at TV / Radio interviews, Conferences, Seminars and Workshops. Furthermore, he contributed in preparing many proposals regarding cyber-crimes and data privacy protection laws in Egypt and the Arab World.

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Mr. Ayman has more than a decade of proven experience in cybersecurity applied to embedded systems, mobile technologies, critical infrastructure and the Internet of Things (from Chip to Cloud and governance) having recognized achievements working with a background in both research and

industry.

Through his diverse achievements working for companies such as Trusted Labs, Gemalto and the head office of Credit Agricole Bank, Ayman comes with a wide cybersecurity experience portfolio touching subjects like IT risk governance, comitology, Information System Security, IT Strategy definition, Cybersecurity Certifications, Cybersecurity Evaluations, Cybersecurity lab development (according to ISO 17025 and CSPN standards), Cryptology, etc. One of his foremost skills is implementing cybersecurity while considering the Business Line constraints and ensuring their comfort.

Ayman holds a Master of Science Degree in Cryptography and Computer Security from the university of Bordeaux I, France.

Mr. Ayman Khalil

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Mr. Omar Sherin

Mr. Omar Sherin Holds a BSc. In computer engineering and with 16 years of cyber security experience specialized in Critical infrastructure protection. He is currently working on CNIs and OT cyber security covering Middle East, Africa and India.

Omar is an elected voting member in the ISA99/IEC62443 standard for industrial control systems security, the highest committee in the standard. Omar is also an international member of the ICSJWG created by the US-DHS, He also lead the National level Critical Infrastructure Information Protection program in a GCC country conducting tens of ICS/OT assessments and working on national level security programs, he also developed National Security standards for several middle eastern countries.

Omar was part of the team that developed the world cup cybersecurity framework for Qatar's world cup 2022, Omar is a certified GICSP, CBCP, GRISC, CERT-IH and a SANS institute ICS Mentor.

Mr. Ayed AL Qartah

In his role as Security Technical Solutions Architect in Cisco, Ayed works with many customers in all verticals where he provides architectural, design, and implementation recommendations to solve a multitude of cybersecurity challenges using an integrated portfolio of best-in-class products across the network, endpoint, cloud, internet/DNS and email.

His experience includes working closely with customers advising them on technical security practices, secure network architectures, and advanced threat mitigation strategies. He possesses a heavy focus on advanced persistent threats, malware, forensics, sandboxing, incident response capabilities and actively stays abreast of developing tactics employed by threat actors.

Ayed has over twelve years of experience working with large enterprise networks, banks, government, defense and energy customers in the Middle East.

Prior to joining Cisco, he spent four years with FireEye META as a Consulting Systems Engineer where he designed cyber solutions to mitigate zero-day malware and APT attacks.

Ayed is currently pursuing his master's degree in Cyber Security (Cyber intelligence specialization) at Utica College, New York.