

Internship Evaluation & Reporting

Thank you for taking the time to complete this form, this evaluation will be used to assess the student's participation in the internship program.

Supervisors, using the form below please evaluate the student who interned with your organization, institution, or business. You can fill out this form electronically or you can fill it manually but eventually it must be signed and stamped from the company's side.

Please note that part I & III should be completed by the intern, part II should be completed by the direct supervisor in the company.

Part I. GENERAL INFORMATION – STUDENT'S INPUT

Student Info:

Student Name: Khadiga Yehia Elzafarany

GUC Student ID No.: 52-1145

Faculty: Media Engineering and Technology - MET

Major: Computer Science

Student Mobile No.: 01117606251

Internship Info:

Company Name: iEight technologies.

Core Industry/Business: Network & Security Country: Egypt

Supervisor Name: Kamel Osman Supervisor Job Title: Senior Technical Engineer

Supervisor Tel. No.: _____ Supervisor Mobile No.: 01060 377 881

Supervisor E-mail: K.Osman@ieight.com Training Department(s): Network - Security

Source of internships: (1) SCAD office (2) on my own (3) Referrals from GUC TA/Dr. (4) Recruitment website (5) others:

Work Place: (1) Organization (2) Head Office (3) Branch (4) Factory (5) Site (6) Others:

Part II. EVALUATION AND COMMENTS – DIRECT SUPERVISOR'S INPUT

Period of Internship (dd/mm/yyyy)

(dd/mm/yyyy)

From: 01 / 08 / 2023

To: 14 / 09 / 2023

Internship nature (Enrollment Status)

☐ Part time Please specify, no. of Days per week: _____ hours per day : _____

☒ Full time Please specify, no. of Days per week: 5 hours per day : 8

Company Stamp



For SCAD internal use only

Serial no.	SCAD Comment	Academic Reviewer Comment	Academic Reviewer Signature
			<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected Reason of rejection: Signature:

Please evaluate student's performance by marking the appropriate box:

For each of the following aspects, please mark the box in the rating scale that most closely corresponds to your evaluation of the profile of the student during the internship period. Please also feel free to offer comments and suggestions for changes and improvements in the space provided at the end of the form.

1=Unsatisfactory	2=Below Average	3=Satisfactory	4=Above Average	5=Excellent
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	1	2	3	4	5	NA
Skills & Professional Attributes						
Ability to adapt to change				✓		
Analytical skills					✓	
Collecting data/ research data skills				✓		
Creativity				✓		
Follow up skills					✓	
Interpersonal skills with peers, supervisors, and clients			✓			
Problem solving				✓		
Punctuality				✓		
Reporting skills				✓		
Responsibility and accountability					✓	
Stress handling					✓	
Taking initiatives					✓	
Teamwork				✓		
Time management					✓	
Other:						
Technical Background						
Technical Knowledge				✓		
Compatibility of technical skills with the job					✓	
Other:						
Command of Languages						
Arabic					✓	
English					✓	
German						
Other:						

1=Unsatisfactory 2=Below Average 3=Satisfactory 4=Above Average 5=Excellent

	1	2	3	4	5	NA
Computer Programs & Databases						
Please use space below in specifying the program/software used during the internship and evaluate student's performance accordingly						
Fortigate Firewall					✓	
FortiAP				✓		
FortiSW					✓	
Cisco Packet Tracer					✓	

Overall Evaluation of Student's performance and profile					
Unsatisfactory	Improvement needed	Meets expectations	Exceeds expectations	Exceptional	NA
			✓		

General Comments & Recommendations: (kindly mention Intern potentials, areas of further development or technical constraints encountered during the internship period)

Throughout Khadiga's internship she consistently demonstrated an exceptional work ethic and dedication to learning. Her impressive achievement at [Eight Technologies point to a Bright Future.

Do you think similar candidates would fit in the Organization culture and qualify for job needs?

Yes ☒ No ☐ Maybe ☐

Student Signature:

Khadiga

Date:

14/9/2023

Supervisor Signature:

Kamal Osman

Date:

14/9/2023

Part III. INTERNSHIP REPORT – STUDENT’S INPUT

- This report has to be prepared by the student, it must be prepared and written in a **computerized** format, submitting the report in hand written format will not be accepted.
- Kindly refer to the Internship Report writing Guidelines on the GUC intranet – SCAD office folder.
- This report will be reviewed and evaluated from internal faculty members.

Internship Title: Network and Security

Company / Organization Name: IEight Technologies

Introduction: This report documents my enriching journey as an intern at IEight Technologies, a prominent System Integrator specializing in Information Technology and Physical Security. The primary objective of this report is to provide a comprehensive account of my experiences, learning, and contributions during my internship in the field of network and security. By immersing myself in the vibrant environment of IEight, I aimed to not only deepen my knowledge but also gain practical insights into the intricate world of IT and security systems integration. This report is organized to give a clear understanding of the tasks I undertook, the circumstances in which I worked, the equipment I used, and the research I conducted. It also provides information about IEight Technologies as a company and its dedication to environmentally friendly innovation and customer-focused design.

Company / Organization Description: iEight is a System Integrator in the field of Information Technology and Physical Security. Inspired by the Intelligent 8 Pillars of Success, I8ght's mission is rooted in a commitment to sustainability and client-centric innovation. They strive to engage in sustainable practices and possess the foresight to anticipate their clients' evolving needs. I8ght's core focus is on delivering maximum return on investment (ROI) to their clients without compromising on the quality of their solutions. They achieve this through a dedication to professional excellence and the delivery of integrated systems, which are seamlessly embedded in their products and services. The company places a high importance on repositioning itself inside the enterprise landscape from a typical cost center to a reliable business partner. This change gives organizations the necessary capabilities to compete in the constantly changing global economy, making it more than just a strategic option. I8ght helps organizations realize their full potential and stay competitive in today's fast-paced environment by becoming a valued and trusted partner.

Internship Performed Tasks: During my internship at IEight Technologies, I had the privilege of being actively involved in a wide range of tasks and experiences in the field of network and security. These tasks encompassed the following:

Network Fundamentals: Building upon my foundational knowledge, I further deepened my understanding of networking fundamentals. This included a comprehensive grasp of networking models such as OSI and TCP/IP, familiarity with diverse networking protocols, and expertise in IP addressing schemes for both IPv4 and IPv6.

Network Services Implementation: I also actively participated in the implementation of critical network services, including Dynamic Host Configuration Protocol (DHCP) for efficient IP address allocation, Domain Name System (DNS) for name resolution, and Network Address Translation (NAT) to manage IP address allocation and facilitate network services seamlessly.

Router and Switch Configuration: My responsibilities extended to the configuration of routers and switches. This involved setting up Virtual LANs (VLANs), configuring routing protocols such as OSPF and EIGRP for efficient data routing, and implementing access control lists (ACLs) to regulate network access and enhance security.

User Access Management: A significant component of my role involved managing user access effectively. This encompassed implementing various authentication methods and developing comprehensive authorization policies to govern user privileges within the network and security infrastructure.

Firewall Configuration: One of my primary responsibilities was the setup and configuration of FortiGate firewalls, which played a critical role in filtering and controlling network traffic. This involved the creation of firewall rules, policies, and address objects to ensure comprehensive security.

Security Policy Development: I was tasked with developing security policies that enforced access control and security regulations. These policies were designed to meticulously define allowed and denied traffic based on source, destination, and service parameters, thereby bolstering the network's security posture.

Cryptography: As part of my internship, I delved into the realm of cryptography, which involved a comprehensive understanding of encryption algorithms, secure communications, and the significance of a public key infrastructure (PKI) in ensuring the confidentiality and integrity of data in transit.

Intrusion Prevention Systems (IPS): I actively participated in the implementation of Intrusion Prevention Systems (IPS) aimed at proactively identifying and blocking malicious activities. This initiative played a crucial role in safeguarding the network against potential threats.

VPN Configuration: My responsibilities included configuring virtual private networks (VPNs), a key component for secure remote access and establishing secure site-to-site connectivity. This played an essential role in facilitating secure communication within the network infrastructure.

Web and Content Filtering: I was actively involved in the deployment of web filtering and content filtering solutions, which significantly enhanced network security by blocking access to malicious websites and regulating content access within the network.

Logging and Reporting: Monitoring and analyzing firewall logs and generating detailed reports for security analysis were integral to my responsibilities. This practice enabled us to proactively identify and address security incidents.

High Availability (HA): My tasks also extended to setting up high availability and failover configurations, ensuring uninterrupted network security operations even in the face of potential disruptions.

In terms of working conditions, my typical workday at IEight Technologies was characterized by a collaborative and dynamic environment within the office setting. I worked closely with a dedicated team of professionals at IEight Technologies. This team consisted of network administrators, security experts, and system engineers, all of whom played essential roles in ensuring the smooth execution of network and security projects. My tasks primarily revolved around network and security implementation within the confines of our office. This involved configuring network devices, fine-tuning security policies, and conducting regular maintenance activities.

The tools, equipment, and software I regularly used during my internship included a variety of network and security devices such as FortiGate firewalls, Cisco routers and switches, and intrusion prevention systems. Additionally, I utilized network management and monitoring software for configuration, analysis, and troubleshooting purposes.

Throughout my internship, I had the opportunity to engage in research activities that enriched my understanding of network and security concepts. This included conducting experiments and observations related to network segmentation, security policy effectiveness, and vulnerability assessment. These research tasks allowed me to gain a deeper insight into the practical applications of the skills and knowledge I acquired during my internship where I also learned about Cybersecurity and had completed 2 Fortinet Training programs which are NSE1 (Information Security Awareness) and NSE2 (The Evolution of Cybersecurity). These programs further enriched my knowledge of cybersecurity best practices and enhanced my practical skills.

Internship Evaluation:

My internship experience at IEight Technologies has been an immensely valuable journey, during which I've acquired a diverse set of skills that have significantly enhanced my professional growth. One of the key skills I've gained is a deep understanding of network fundamentals, which includes a comprehensive grasp of networking models such as OSI and TCP/IP, familiarity with various networking protocols, and expertise in IP addressing schemes for both IPv4 and IPv6. These skills have not only bolstered my theoretical knowledge but have also allowed me to put theory into practice.

Additionally, my hands-on experience in configuring routers, switches, and firewalls, as well as implementing security policies, has provided me with practical insights into network and security administration. These tasks closely correlate with the academic coursework I've pursued at GUC, particularly "Introduction to Communication Networks" and "Network and Media Lab" closely mirrored the tasks I performed during my internship, solidifying the link between my studies and practical application.

The internship exceeded my expectations, providing hands-on experience and exposure to real-world challenges. It reinforced my commitment to a career in information technology and security, emphasizing the importance of collaboration and adaptability in a professional environment.

Conclusion:

In conclusion, my internship experience at IEight Technologies has been instrumental in enhancing my skill set, aligning my academic background with practical applications, and solidifying my career aspirations in the dynamic field of information technology and security. It has been an invaluable opportunity for growth and learning, and I am grateful for the experiences and knowledge gained during this journey.

Please rate your satisfaction with the internship experience.

☐ Very satisfied ☒ Somehow satisfied ☐ Neutral ☐ Somehow dissatisfied ☐ Very dissatisfied

Would you recommend this internship to other colleagues?

☒ Yes ☐ No ☐ Maybe

Disclosure / Confidentiality Agreement

This agreement is to acknowledge that the information provided by any company / organization during the internship is unique to this business and confidential.

Therefore, anyone reading this agreement agrees not to disclose any of the information provided during the internship without notifying & taking the employer's / supervisor's approval.