

Catherine Nayer Tadros
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OBJECTIVE

My objective is to work in a place where I can utilize what I have learned during my years of work and study, to play a role not only to maintain, but also to improve the performance of the place I am also working at adding value and through which I can interact and adapt to work efficiently in a dynamic environment to prove myself.

PROFESSIONAL EXPERIENCE

Senior IT Support Engineer

Aromatic Flavours & Fragrances S.A.E

June 2015 - Present

- Troubleshooting and solving networking issues.
- Working on Fort iGATE Firewall.
- Working on Kaspersky Antivirus Security Center
- Working on Avaya IP office manager central
- Working on VMWare vSphere, Esxi and VMWare workstation.
- Working on Hik Vision and Axis camera systems
- Provide technical assistance and support for incoming queries and issues related to computer systems software, and hardware either in person, via email or over the phone.
- Performing remote troubleshooting through diagnostic techniques using different remote software.
- Install, modify, and repair computer hardware and software for users.
- Record events and problems and their resolution in logs

Senior Research Assistant (Part Time)

Faculty of Engineering, Alexandria University

March 2015 – Present

- Getting a master's degree in software Defined Network-based Management Architecture for Enhanced Computer Network Operations and Services.
- Publishing many Papers in Software Defined Network (SDN) and Wireless Sensor Network (WSN).
- Research on Internet of Things (IoT) environment.
- Reviewing of many papers in the SDN and IoT fields.
- Using NS2, Cooja, Mininet, Mininet-WIFI and many simulators software.

Assistant Teacher (Short course)

Faculty of Engineering, Alexandria University

10 - 24 April 2021

- Teaching Embedded System and IoT course practically.
- Teaching C and Python programming language
- Hardware implementation of different projects using Raspberry Pi and Arduino.

Maintenance IT engineer

Pan Arab E-Navigation

October 2014 - May 2015

- Responsible for the whole company system (Simulator).
- Providing technical support for the whole company network.

- Managing company website.

EDUCATIONAL

- Master's degree in software Defined Network-based Management Architecture for Enhanced Computer Network Operations and Services | Faculty of Engineering | Alexandria University | Communications and Electronics Department | GPA: 4 | November 2019
- MCIT scholarship (Network track) | New Horizon | November 2013 - June 2014
- Bachelor's degree | Faculty of Engineering | Alexandria University | Communications and Electronics Department | Very Good Grade | Graduation project: In-Building Solution with Dr. Ibrahim Ghaleb | Excellent Grade | June 2013

CERTIFICATES

- IELTS Certification | British Council | November 2017.
- Microsoft certified solution associate (MCSA) | New Horizon | May 2014
<https://mcp.microsoft.com/Anonymous//Transcript/Validate>
Transcript ID (1138113) and the Access Code (engineer).
- CCNA Cisco certified | New Horizon | March 2014
- ICDL UNESCO Certification | Faculty of Engineering, Alexandria University | July 2011.

Publications

- C. N. Tados, N. Shehata, and B. Mokhtar, "Unsupervised Learning-Based WSN Clustering for Efficient Environmental Pollution Monitoring," *Sensors*, vol. 23, no. 12, p. 5733, Jun. 2023, doi: 10.3390/s23125733. [Online]. Available: <http://dx.doi.org/10.3390/s23125733>
- C. N. Tados, B. Mokhtar, M. R. M. Rizk, "Software Defined Network-Based Management Architecture for 5G Network" In: Rai, A., Kumar Singh, D., Sehgal, A., Cengiz, K. (eds) *Paradigms of Smart and Intelligent Communication, 5G and beyond*. Transactions on Computer Systems and Networks. Springer, Singapore, May 2023. https://doi.org/10.1007/978-981-99-0109-8_10
- A. A. Afify, C. N. Tados, K. Cengiz, B. Mokhtar, "Full Connectivity Driven K-LEACH Algorithm for Efficient Data Forwarding in IoT Networks", 5th International Conference on Innovative Computing and Communication (ICICC) 19-20th February 2022.
- C. N. Tados, M. Gad, B. M. Mokhtar, and M. E. Shimy, "Vehicular Edge of Thing Computing for Sustainable Smart IoT Services," 2021 IEEE 7th World Forum on Internet of Things (WF-IoT), 2021, pp. 55-59, doi: 10.1109/WF-IoT51360.2021.9595826.
- C. N. Tados, M. R. M. Rizk and B. M. Mokhtar, "Software Defined Network-Based Management for Enhanced 5G Network Services," in *IEEE Access*, vol. 8, pp. 53997-54008, 12 March 2020, doi: 10.1109/ACCESS.2020.2980392.
- C. N. Tados, B. Mokhtar and M.R.M. Rizk, "Logically centralized-physically distributed software defined network controller architecture", 2018 IEEE Global Conference on Internet of Things (GCIoT), 21 January 2019, doi: 10.1109/GCIoT.2018.8620166, Alexandria, Egypt.
- C. N. Tados, B. Mokhtar and M.R.M. Rizk, "Software Defined Network Based Management Framework for Wireless Sensor Networks", 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), 17 January 2019, doi: 10.1109/IEMCON.2018.8615087, Vancouver, BC, Canada.

LANGUAGE SKILLS

- **Arabic:** Native tongue

- **English:** Fluent in writing, reading, and speaking.
- **French:** Fluent in writing, reading, and speaking.

COMPUTER SKILLS

- Good knowledge in Network management (Windows Server (2003, 2008, 2012), Active Directory, group policy, TCP/IP, hyper V, VM-ware, Firewall (TMG), and Virtual Machines Management).
- Professional in making DHCP server, DNS server, domain controller, file server, WSUS server and WDS.
- Good knowledge of HTML, HTML5, CSS and JavaScript basics.
- Good knowledge of all computer hardware.
- On hand work experience in using Windows XP, 7, 8, 8.1,10,11.
- On hand work experience in using Microsoft office 365.
- Familiar with Linux using Ubuntu (beginner).
- Excellent skills using the Internet and World Wide Web.
- Good experience in MS Office (Word, Excel, and PowerPoint) and Prezi in making presentations.
- Professional in using Microsoft Visio (2010, 2013) and Edraw for network drawings.
- Good knowledge of Mobile Systems (GSM, UMTS, LTE, 5G).
- Good knowledge of IB-wave design.
- Good knowledge in Matlab
- Good knowledge of C and Python programming languages.
- Good Knowledge in programming Arduino and Raspberry Pi.
- Good Knowledge of IoT and SDN.
- Good Knowledge in using different Artificial Intelligence software like Canva, Copilot and ChatGPT.

Courses

- The Raspberry Pi Platform & Python Programming for the Raspberry Pi | COURSERA | November 2020.
- Getting Started with Your Raspberry Pi | Future Learn | November 2020.
- The Arduino Platform and C Programming | COURSERA | November 2020.
- Web Development scholarship (challenge track) | ITIDA & UDACITY | August 2020.
- Introduction to HTML5 | Coursera | June 2020.
- Implementing Forefront Threat Management Gateway 2 | New Horizon | May 2014.
- Trouble shooting Cisco networks (T shoot) | New Horizon | May 2014.
- Implementing Cisco IP Routing (ROUTE) | New Horizon | April 2014.
- Implementing Cisco IP Switched Networks (SWITCH) | New Horizon | April 2014.
- CCNA v2 (Cisco certified) | New Horizon | March 2014.
- 20412 Configuring Advanced Windows Server 2012 Services (MCSA) | New Horizon | February 2014.
- 20411 Administering Windows Server 2012(MCSA) | New Horizon | February 2014.
- 20410 Installing and Configuring Windows Server 2012 (MCSA) | New Horizon | January 2014.
- 20687 Configuring Windows 8 | New Horizon | January 2014.
- Windows Server Administration Fundamentals (40365A) | New Horizon | January 2014.
- Windows Operating System Fundamentals (40349A) | New Horizon | January 2014.
- CompTIA security + | New Horizon | December 2013.
- CompTIA Network+ | New Horizon | December 2013.
- CompTIA Strata green IT | New Horizon | December 2013.
- CompTIA Strata Fundamentals - IT Technology | New Horizon | November 2013.
- Soft skills course | New Horizon | November 2013.
- CCNA | Smart Vision | October 2013.
- Mobile communication package (GSM-UMTS-LTE) | Smart Vision | October 2012.

- AVR Microcontroller | New Horizon | August 2011.
- ICDL UNESCO certified | Faculty of Engineering | July 2011.
- Matlab Advanced Course (level 1, level 2) /Simulink | New Horizon | August 2010.

INTERPERSONAL SKILLS

- Good communication, presentation, and negotiation skills.
- Hard worker (can implement many tasks).
- Good time management.
- Good researcher.
- Self-learning.
- Ability to work in a team.
- Ability of task organization and prioritization
- Sincerity in handling confidential information

INTERESTS

- Listening to music.
- Traveling.
- Attending concerts.
- Internet surfing.

References

Furnished upon request.