**Mostafa Abdelaziz** Montreal, QC • 343-777-4060 • [admin@ramses.ca](mailto:admin@ramses.ca) • [ramses.ca](https://ramses.ca/) • [LinkedIn](https://www.linkedin.com/in/mabdelaz/)

**Network Engineer**

Networks Geek | Linux/UNIX Master | Troubleshooting Ninja

Computer Engineer specialized in Network Systems, Data Centre Operations, Embedded Systems, and Computer Architecture. Skilled at installing, configuring, and maintaining communication networks. Adept at monitoring networks performance, completing backups, and improving quality and efficiency of networks infrastructure. Technical expertise in Computer Networks and Firmware Engineering; experienced with Cisco Routers and Switches (NXOS, IOS/XE Catalyst, ASR9K, NCS5K).

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Linux Server Administration | Embedded Systems | Network Design & Deployment | Network Troubleshooting

Bash Scripting/Automation | Cisco H/W Platforms | Rack Design | Shell Scripting

*C, Python, Assembly, Bash, VHDL, Android, HTML, CSS, JS, PHP*

**Professional Experience**

**Networks Engineer | CISCO** – *Ottawa, ON* **2018 – Present**

*Worked on several crucial features for Cisco 8000 Series, NCS5000 Series, and ASR9K Family to satisfy Service Provider market needs; contributed to Cisco Catalyst and Nexus 9000.*

* Implemented new components for Cisco’s IOS/XR, IOS/XE, and NXOS Operating Systems in C.
* Designed and deployed new testbeds and laid out new racks in the internal data centers and labs.
* Developed a decent automation platform to assist the team with automating integration testing (bash/python).
* Enhanced the use of virtualization technologies, including vSphere, KVM.
* Wrote Documentation and Specifications.
* Trained new hires and interns on Networking/OS basics and Cisco products.

**Achievements**

* *Leveraged technical troubleshooting expertise to save a broken 8000 IOS-XR router using techniques to find the failing component and reprogrammed the JTAG chain, thus saving a $ 200K and allowing software engineers to continue their work without further interruption.*
* *Quickly reacted following a problem with the submit of a new component in a release operation. Troubleshoot the SCM code to identify and fix the problem root cause, preventing a break in the OS and avoided large delays in the code release into the operating system repository.*

**Software Engineer |** **SOUNDHOUD** – *Toronto, ON* **2018**

*Worked with a team of top-notch AI engineers on high-end Speech Recognition and Natural Language Processing products.*

* Leveraged C/C++ programming skills to develop serverside NLP modules.
* Provided Linux technical expertise to the automation of various processes.
* Manipulated and managed large database systems

**Achievement**

* *As working on a complex AI system for speech recognition at vehicules, used creative problem-solving skills to suggest a binary-search approach to identify a problem with system failure, reducing the search time from 70 to 23 hours.*

**Researcher, Networks** **| SIMON FRASER UNIVERSITY** – *Vancouver, BC* **2017**

* Implemented an LTE base station using Ettus B210 USRP (Software-Defined Networking) and OpenAirInterface.

**RA Intern, Networks** **| SMARTCI RESEARCH CENTER** – *Alexandria, Egypt* **2015**

* Programmed the storage system of a cognitive radio cloud, which consisted of Linux nodes with ext2fs, using IP multicast and filesystem-aware data compression.

**Education**

**B.Sc., Computer and Systems Engineering | ALEXANDRIA UNIVERSITY**

*Rank: 1st (highest GPA) / GPA: 3.94/4.00 / Graduation Project:* [*FPGA computer based on MIPS architecture*](https://github.com/iocoder/graduation)