

Craig Tomkow

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PROFESSIONAL EXPERIENCE

Network Analyst, University of Alberta. May 2014 - Present

Manage a large multi-vendor enterprise access network comprised of 1800+ switches and 5000+ access points. Troubleshoot and verify DHCP, VoIP, wireless, and layer 3 connectivity while escalating as necessary. Quickly resolve network outages and degradation of service. Administrate various network management systems. Provide costing for network upgrades. Provide mentoring and leadership to junior staff.

- Assigned as a lead resource for a 7 million dollar, 14 month long network upgrade.
- Proposed and successfully implemented a technical network design which saved a project \$5,000.00.
- Wrote Python software to make mass config changes. <https://github.com/ctomkow/swITch>

Data Center Technician, University of Alberta. April 2012 - May 2014

Physically installed and cabled all servers and network hardware for 16,500 ft² of data center space. Maintained the Data Center Infrastructure Management system for 600+ devices across four data centers. Planned with clients and departments in the physical migration of servers.

- Physically migrated a data center of 100 servers finishing on time, on budget, and in scope.
- Greatly reduced configuration time of data center power bars with Python scripting.

Telecommunications Technician, iTower Communications. November 2011 - April 2012

Installed network cabinets at various locations across Alberta. Performed fiber optic, Cat6, and electrical cabling. Assembled network dishes and radios for installation onto communications towers. Troubleshot incidents regarding non-functioning point to point connections.

NETWORKING TECHNOLOGIES & PROTOCOLS

Hardware: Cisco switch – 2960, 3650, 3750, 4506, 6509 :: HP switch – 2524, 2810, 2910, 4200

Network Management: Cisco Prime – RANCID – Traverse – Wireshark – iPerf – Cacti – Visio – Linux

Scripting/Automation: Python – Expect – Tcl – Bash

Transport: TCP (*rfc 793*) – UDP (*rfc 768*)

Internet: IPv4 (*rfc 791*) – OSPF (*rfc 2328*) – EIGRP (*rfc 7868*) – ICMP (*rfc 792*)

Link: Ethernet (*802.3*) – Spanning Tree (*802.1w/s*) – VLAN (*802.1Q*) – ARP (*rfc 826*) – LACP (*802.3ax*)

Phy: Fiber Optics (*802.3z/ae*) – Twisted pair (*802.3ab*)

EDUCATION & CERTIFICATIONS

Master of Science in Information Systems, Athabasca University, *est.* 2020

Bachelor of Science in Computer Science, University of Alberta, April 2011

CCNP Routing & Switching, Cisco *certified:* December, 2016 – *expires:* December, 2019