

# TROY DENTON, P.ENG.

[troy@troydenton.ca](mailto:troy@troydenton.ca)

Toronto, ON

+1.204.794.9123



## SKILLS

- Refined presentation & documentation skills. Excellent public speaker.
- Engineering team management, project management, social event planning.
- Software development – C, C++, python, bash, perl. Strong git, CI/CD configuration skills.
- Embedded systems, high speed PHY/DDR protocol implementation. Power-on & simulation debug skills.
- VLSI Development – Verilog, Cadence Virtuoso, TCL.
- PCB design – KiCAD, Altium, ngspice. Have designed FCC certified devices.
- Extensive Linux development & admin experience (server, desktop, embedded).
- Hand soldering (SMT), electronic troubleshooting & repair, 3D modeling, video editing, many more.

## RECENT EXPERIENCE

### Engineering Manager / Developer, Intel – Toronto, ON 2021-Present

- Firmware design and development for FPGA memory controllers (DDR, LPDDR).
- Implemented JIRA & CI workflows. Improved, documented release processes.
- Managed high performing 7-person team.
- Social committee leader, lab manager. Built thermal protection system for \$1M+ lab.

### Senior Telecom Engineer, 247 Intouch – Winnipeg, MB 2018-2021

- Full-stack development of a browser based phone system, handling 13,000 calls/day. Designed support and maintenance procedures.
- Saved millions in annual license fees with open source architecture. Provided fixes upstream.

### Embedded Software Engineer, JCA Electronics – Winnipeg, MB 2016-2018

- Technical lead on a commercial product. Software developer, project manager for agricultural control system products. Frequent customer site visits.
- Developer for Embedded Linux & FreeRTOS systems. Implemented ISO11783 stack.

### Embedded Software Engineer, Younes Medical Tech. – Winnipeg, MB 2013-2016

- Developed embedded systems firmware for ISO13485 medical devices. Analog circuit design.
- Backend developer, DevOps & SysAdmin lead.
- Designed and developed production, test procedures in compliance with ISO13485.

## RECENT VOLUNTEER EXPERIENCE

### Director – Manitoba UNIX Users Group 2019-2022

- I planned events, wrote newsletters, and presented on assorted technologies at our monthly meetings.
- Doubled monthly meeting attendance with a targeted social media campaign.

### Program Facilitator – Millennium Library Electronics Club 2019-2021

- I taught a bi-weekly electronics class, and helped patrons fix their devices.

### Director – SkullSpace 2016-2018

- I led a website improvement project, and planned many social events and workshops.

## EDUCATION

### University of Toronto 2022-Present

- M.Eng., Computer Engineering. VLSI design, FPGA architecture, CAD tool development, Operating Systems, CPU architecture.
- Anticipated Graduation in Fall 2024. Current CGPA 3.94.

### University of Manitoba 2007-2012

- B.Sc., Electrical & Computer Engineering. Minor in Computer Science. Active in many student groups. Awarded 'Best Capstone Thesis'. CGPA 3.61.