

# Daniel F. Dickinson

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Bachelor of Computing • CompTIA A+ • ce

## Contact

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## Professional Objective

Realizing a passion for life and tech for the common good.

## Skills Highlights

- DevOps/Sysadmin: Windows, Linux, Networking, Troubleshooting, Provisioning
- Software Development: C, Shell Scripting, Node.js, Git, GitHub, Python
- Cloud Computing: OpenStack, Terraform, Ansible, Infrastructure as Code
- Virtualization: Qemu/KVM, Libvirt, Docker, Packer (some Hyper-V, Xen, Vagrant)
- Embedded Linux: OpenWrt, Cross-Compiling, Busybox, ARM, MIPS
- Frontend Web: HTML5, CSS3, JavaScript, Hugo, Web Content Writing

## Employment History

*IT Manager<sup>i</sup> / Integration Analyst • Ambient Activity* *2024 - Present*

- Managed IT infrastructure for the organization.
- Assisted organization staff and management with troubleshooting and resolving technical issues.
- Prepared computers for embedding in products during production.
- Integrated work of developers, engineers, and management into the final products.
- Sourced parts for technology builds.
- Oversaw technology aspects of organization's products.
- Assisted customers with troubleshooting and resolving technical issues with the products.
- Shared product management responsibilities with coworkers.

**Skills:** Systems Integration · Systems Administration · IT Support · Troubleshooting · Windows · Product management

*Owner • Wild Tech 'Garden'* *2023 - Present*

- Developed a Power Platform based solution for the digitization of records and data extraction and analysis for a local non-profit.
- Determined requirements for project and implemented a prototype.
- Improved the solution to capitalize on existing efforts already in use by staff.

**Skills:** Power Platform (including Power BI) · IT Support · Customer Service · Requirements Analysis · Windows

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### *Developer, Blogger & Website Operatator • Daniel Dickinson*

2018-2024

- Created and administered a website and three blogs.
- Authored articles and created and edited graphics and photos.
- Created, used, and modified website themes.
- <https://www.wildtechgarden.ca> — Technical and educational website
- <https://www.danielfdickinson.ca> — Resume and technical blog – Now merged with [www.wildtechgarden.ca](https://www.wildtechgarden.ca). Archived versions available at [https://web.archive.org/web/\\*/www.danielfdickinson.ca](https://web.archive.org/web/*/www.danielfdickinson.ca)\*
- <https://www.princesandmadmen.ca> — Political, creative, and mental health blog – Now removed. Archive versions available at [https://web.archive.org/web/\\*/www.princesandmadmen.ca](https://web.archive.org/web/*/www.princesandmadmen.ca)\*

**Skills:** Cascading Style Sheets (CSS) · HTML5 · Software Troubleshooting · Hardware Troubleshooting · Linux · Open-Source Software · Infrastructure as code (IaC) · Cloud Computing · Virtualization · Ansible · DevOps · Debugging · Shell Scripting · Web Design · Git · GitHub · Web Content Writing · Terraform · OpenStack · Provisioning

### *Software Developer & DevOps • Turnberry Solutions*

2015 - 2016

- Automated provisioning and deployment of OpenStack and AWS instances using Packer, Puppet, and Terraform.
- Automated configuration roll-out using Puppet and a Git/Puppet master in-house integrated system combined with an RPM repository, including detailed documentation.
- Developed various software in Python and Go, including software to find the type of devices connected to a telecommunications system.

**Skills:** Networking · Linux · Open-Source Software · Embedded Linux · Infrastructure as code (IaC) · Virtualization · C · Software Development · DevOps · Debugging · Shell Scripting · Git · Windows · CentOS · Terraform · OpenStack · Puppet · Packer · Provisioning

### *Software Developer & DevOps • Yoh (Day & Zimmerman)*

2014- 2015

- See Turnberry Solutions (same client, different intermediary).

### *Firmware Developer • PowerCloud Systems*

2011 - 2014

- Participated in the design and realization of a breakthrough cloud-based home networking solution in a fast-paced start-up environment, including developing, testing, troubleshooting, and bug-fixing using improvement on the techniques developed for an earlier cloud-based AP solution.
- Supplied technical help and advice related to the products to the QA team and the executive team.

**Skills:** Busybox · Cross Compilers · Networking · Linux · Open-Source Software · Embedded Linux · Embedded Systems · Cloud Computing · C · Troubleshooting · Debugging · Shell Scripting · Git · OpenWrt

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*Software Consultant • SMB Phone Inc* 2010 - 2010

- Offered design advice on a hardware CPE VoIP device and designed prototype firmware.

**Skills:** Networking · Open-Source Software · Embedded Linux · Embedded Systems · Cloud Computing · Software Development · Requirements Analysis · Debugging · Shell Scripting · Voice over IP (VoIP) · Git · OpenWrt

*Firmware and Software Developer • Vertical Communications* 2009 - 2010

- Created a web front-end for the FreeSWITCH softswitch based on OpenWrt (Lua).
- Created a prototype web-based provisioning system for a VoIP device using Perl and designed a RESTful version.

**Skills:** Busybox · Cascading Style Sheets (CSS) · Networking · Linux · Debian · Open-Source Software · Embedded Linux · Embedded Systems · Cloud Computing · Debugging · Shell Scripting · Voice over IP (VoIP) · Web Design · Git · Lua · Provisioning · OpenWrt

*Intern • Vertical Communications* 2009 - 2009

- Enabled existing hardware VoIP device to use OpenWrt in preparation for enabling VoIP services through FreeSWITCH softswitch.

**Skills:** Networking · Linux · Debian · Open-Source Software · Embedded Linux · Embedded Systems · Cloud Computing · Software Development · Debugging · Shell Scripting · Voice over IP (VoIP) · Web Design · Git · Lua · Provisioning · OpenWrt

*Programmer Analyst / Technician • C & I Technologies* 1998 - 2002

- Designed and developed database projects in Borland C++ Builder, as well as websites, Java applets, and documentation.
- Designed, developed, and deployed a custom Java applet for graphical design and requesting sales quotes for module dock systems through to order-entry and matching with payments.

**Skills:** Cascading Style Sheets (CSS) · Software Troubleshooting · Hardware Troubleshooting · IT Support · Linux · Debian · Open-Source Software · C · Software Development · Requirements Analysis · Troubleshooting · Debugging · Business Analysis · Shell Scripting · Web Design · Windows

*Undergraduate Teaching Assistant • University of Guelph* 1998 - 1998

- Taught lab sections and graded projects for two different semesters.
- Advised students on course material.

**Skills:** Cascading Style Sheets (CSS) · Open-Source Software · C · Debugging · Shell Scripting

*Accounts Payable Clerk • Autocom Manufacturing* 1997 - 1997

- Performed invoice and purchase order receiving.
- Matched invoices and purchase orders.
- Entered data into an AS/400-based accounting system.
- Consulted with other employees about incomplete or delayed information reporting.

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*Production Support • Crate Designs (Heirloom Canada)* 1995 - 1996

- Moved to a perpetual inventory system using MISys and ACCPAC.
- Maintained inventory records (item lists and inventory).
- Produced production scheduling reports.

*Data Entry and Processing Assistant •* 1995 - 1995

*Dr. David L.G. Noakes, University of Guelph*

- Entered data for a private library of research papers on Ichthyology.
- Entered and processed data for a paper by a research assistant of Dr. Noakes.

*Accounting Clerk • Prior Resource Group (various clients)* 1994 - 1994

- Coordinated four employees for preparation of incoming cheques/cash.
- Performed A/R duties and filing.
- Performed A/P data-entry.

*Typesetter (Digital) • Ontarian* 1993 - 1993

Performed entry and layout of ads (text-only ads) using Adobe PageMaker for Mac.

*Youth Literacy Assistant • Wellington County Literacy Council* 1992 - 1992

- Promoted youth literacy including creating advertisements and administering a youth writing contest.

## Community Contributions

*Volunteer • Wye Marsh Wildlife Centre* 2023 - Present

- Greeted visitors and processed admissions for occasional special events.

*Board Member • Midland Public Library* 2023 - Present

- Trained for roles and responsibilities of the position of board member for an accredited Ontario Public Library through opportunities from the Ontario Library Service and the Midland Public Library board member portal.
- Reviewed, queried, and commented on financial reports as a member of the Finance Committee.
- Reviewed, queried, and commented on policies of the library as a Policy Committee member.
- Provided support and comments for fundraising efforts of the library as a Fundraising Committee member.

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*Tutor / Retail Clerk / IT Analyst • Gateway Centre for Learning* 2018 - Present

- Provided tutoring in English, academics, and technology including planning and preparing material.
- Provided customer assistance and sales for Gateway's Bookmark Used Books.
- Provided ongoing support for digital transformation project created during a paid contract.

*Volunteer Maker • Midland Public Library* 2017 - Present

- Created and presented talks on various computing topics for adults.
- Taught basic electronics, coding, and robotics, quite enthusiastically, to a group of children eight to twelve years old as part of team of volunteers for a "Bot & Bytes" workshop series.
- Participated in and offered advice to MPL as a member of the Makerspace Advisory Group.

*Open-Source Developer • Various Online/Offline Projects* 2004 - 2024

- Collaborated with international teams on projects including OpenWrt, various Hugo themes, and more.
- Added projects to which I created, or have contributed, at <https://github.com/danielfdickinson>, now moved to <https://gitlab.com/danielfdickinson>
- Contributed directly and indirectly to Linux kernel (search for "Dickinson" in the source).
- Created a custom Debian-derived distribution for use on old computers.
- Assisted Bruce-Grey Linux Users Group in refurbishing old computers for United Way clients (STARS project).
- Currently on hold due to limited time.

*Member, Midland Accessibility Advisory Committee •*

*Town of Midland* 2018 - 2022

- Reviewed site plans for accessibility issues.
- Reviewed other town matters for accessibility related concerns under the AODA (Accessibility for Ontarians with Disabilities Act).

*Website Designer • United Way, Guelph* 2001 - 2001

- Designed and deployed a website for the Guelph United Way which enabled the campaign associates to easily add news items.
- The site as it was (except graphics) can be viewed using the Wayback Machine at <https://web.archive.org/web/20011127114724/http://www.unitedwayguelph.com/>

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*President of Science Fiction, Fantasy, and Horror Club •*

1997 - 1999

*Central Student Association, University of Guelph*

- Performed executive duties for the SFFH including promotion, activities, membership matters, and administrative duties.

## Education

- Cross-skilling in Microsoft's Power Platform Present
- CompTIA A+ • ce Certification 2023
- Smart Serve® • Ontario Government Online Certification<sup>ii</sup> 2020
- 3D Printer and Laser Cutter Certifications • MPL MakerPlace 2019
- Tutor Training • Gateway Centre for Learning 2018
- WHMIS • Online certification 2016
- Soft Skills Solutions® • HERO Centre 2016
- Volunteer Training • CMHA, Hanover 2005
- Bachelor/ Baccalaureate in Computing • University of Guelph 2003
- OSSD (OAC) • ADHS 1992

## Awards

- Dean's Honours List • University of Guelph 1997
- J.A. Howsen Brocklebank Grade Thirteen Award (First)<sup>iii</sup> • ADHS 1992
- J.A. Howsen Brocklebank Award<sup>iv</sup> • ADHS 1992
- Special School Letter • ADHS 1992
- School Letter • ADHS 1991

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i This title likely needs to be revisited as I do not manage people, but the technology, so this is probably not the correct designation according to the NOC (Canadian National Occupational Classification).

ii Expired due to Cannabis Act and have not recertified.

iii Highest in school on best seven O.A.C credits.

iv For male who contributed most to high school life.