

WILL NILGES

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SKILLS

LANGUAGES

- C
- BASH
- Python
- ARM Cortex M0+ Assembly
- C++
- Rust
- QML
- VHDL

OPERATING SYSTEMS

- RHEL
- Debian
- Arch
- Cisco IOS
- Fedora
- Ubuntu
- PFSense

HARDWARE

- Oscilloscopes
- Wave Function Generators
- Trace32 Dongles
- Multimeters
- Soldering Equipment

SOFTWARE

- Proxmox
- OpenShift
- Docker
- GNUMake
- JetBrains IDE
- Kubernetes
- Podman
- CMake
- Vim
- Qt Creator

ACTIVITIES

COMPUTER SCIENCE HOUSE

SysAdmin, Executive Board
Living-learning community focused on technical projects, knowledge, and skills. Managed computing resources and web services for members to facilitate project development.

RIT LINUX USERS GROUP

Worked alongside enthusiasts and experts to spread knowledge among the greater RIT community through presentations and meetings.

SCOUTS OF AMERICA

Eagle Scout, Order of the Arrow
Completed Eagle Project for Christian youth organization.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

B.S. Computer Engineering
May 2023 | GPA: 3.45

EXPERIENCE

QUALCOMM

May 2021 — August 2021

- Designed new debugging frameworks to accelerate development
- Implemented polished and functional system and UI in **Python** and **C**
- Laid groundwork for future expansion of framework and additional interfaces

Firmware Engineering Co-Op

COUNCIL ROCK

May 2020 — December 2020 & August 2021 — December 2021

- Built new, more maintainable firmwares for custom embedded devices
- Developed new features, addressed customer issues, and managed roadmap
- Designed Kubernetes infrastructure for product to improve flexibility

Computer Engineering Co-Op

THE REPORTER

November 2019 — Present

- Architecting and building practical solutions for article, podcast, and services hosting to boost employee productivity
- Managing instances of **Pritunl**, **Mediawiki**, and **Samba** on **Proxmox**
- Maintaining **Drupal** CMS and **Flask** frontend served with **Nginx** on **Docker**

System Administrator

MASTODON DESIGN

May 2019 — August 2019

- Designed test suites for custom communication equipment in **Python** and **C++** to streamline QA
- Created thermal testing software for mil-spec stress tests to boost product reliability

Software Engineering Co-Op

PROJECTS

INKPATH (C)

GITHUB.COM/WILLNILGES/INKPATH

- Xournal++ plugin for transcribing whiteboard notes
- Allows for faster note taking and flexible adaptation of lecture materials
- Contributed API code to popular open source project

CSH OPENSIFT 4 CLUSTER

- Bootstrapped large-scale cluster for Computer Science House on Proxmox
- Provided Kubernetes-related support and resources for members' projects
- Monitored for and corrected issues as they arose to prevent downtime

IMAGINERIT 2022: CSHACKS (C / Python / Rust)

GITHUB.COM/COMPUTERSCIENCEHOUSE/IMAGINE2022-EMBEDDED

- Campus-wide BLE-based asset tracking demo with a fun twist
- Leading and managing multi-disciplinary project by maintaining schedule, taking notes, facilitating communication, and running meetings