WILL NILGES

(he/him)

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SKILLS

LANGUAGES
C • C++ • BASH • Rust • Python • QML •
Java • Kotlin • C#
• ARM Cortex M0+ • VHDL

OPERATING SYSTEMS
RHEL • Fedora • Debian • Ubuntu • Arch
• PFSense • Cisco IOS

HARDWARE
Oscillosocopes • Multimeters
• Wave Function Generators
• Soldering Equipment
• Lauterbach Debug Interfaces

SOFTWARE
Proxmox • Kubernetes • OpenShift
• Podman • Docker • CMake • GNUMake
• Vim • JetBrains IDE • Qt Creator
• Ansible

ACTIVITIES

COMPUTER SCIENCE HOUSE
SysAdmin, Exec 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 with other enthusiasts 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 — Firmware Engineering Co-Op
May 2021 — August 2021
- Designed new debugging frameworks to accelerate development
- Implemented polished and functional framework and UI in Python and C
- Laid groundwork for future expansion of framework and additional interfaces

COUNCIL ROCK — Computer Engineering Co-Op
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

THE REPORTER — System Administrator
November 2019 — Present
- Architect and build practical solutions for article and services hosting to boost employee productivity
- Manage instances of Pritunl, Mediawiki, Keycloak, Nginx, and Samba on Proxmox

MASTODON DESIGN — Software Engineering Co-Op
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

PROJECTS

INKPATH (C)
GITHUB.COM/WILLNILGES/INKPATH
- Xournal++ plugin for transcribing whiteboard notes
- Allows for faster note taking and flexible adaptation of lecture materials

CSH OPENSHIFT 4 CLUSTER
- Boostrapped 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

BETTERVENT (Kotlin)
GITHUB.COM/COMPUTERSCIENCEHOUSE/BETTERVENT
- Lightweight and easy to use room schedule viewer for Android
- Uses Google Calendar API to manage events
- Built with extensibility in mind to fit wide array of use cases