

WILL NILGES

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nilges.me

github.com/WillNilges

(614) 940-0388

OBJECTIVE

Seeking a Computer Engineering Co-Op for Summer/Fall 2020

EDUCATION

Rochester Institute of Technology

B.S. in Computer Engineering — GPA: 3.52

Expected Graduation: Spring 2023

PROJECTS

Directional AC | github.com/WillNilges/DirectionalAC

- Computer vision-enabled gyroscopic fan control system written in C++
- Tracks its user and automatically adjusts its airstream
- Uses OpenCV and Haar Cascades to track human faces
- Custom designed 3D-printed chassis

BetterVent | github.com/WillNilges/BetterVent

- Room schedule viewer for Android written in Java
- Easy to configure, use, and customize
- Lightweight

The Death Panel | github.com/WillNilges/DeathPanel

- Completely custom-built control panel
- Custom protocol that interfaces with game
- Written in C++

sampleZone | github.com/WillNilges/sampleZone

- Terminal-based audio sequencer written in C
- Ncurses GUI
- Built for speed and efficiency

EXPERIENCE

Mastodon Design | Embedded Software Engineer

May 2019 — August 2019

- Designed and built test suites for custom communication equipment
- Reverse engineered and simulated binary messages and signals
- Designed and built thermal testing software for mil-spec stress tests

Rochester Institute of Technology | Linux System Administrator

August 2018 — May 2019

- Supported and maintained various Red Hat systems using Ansible for configuration management
- Patched and protected research computing resources for the Kate Gleason College of Engineering

Online Computer Library Center | Information Technology Intern

July 2015 – August 2015 | June 2017 – August 2017

- Cataloged, repaired, upgraded, imaged, and deployed computer hardware
- Resolved various hardware and software issues across multiple hardware platforms

Upper Arlington Schools | Instructional Technology Intern

January 2016 – July 2017

- Maintained fleet of 2,000+ MacBook Air laptops
- Assisted students and teachers with hardware and software problems

SKILLS

Languages

- C
- C++
- C#
- Python
- Java
- BASH

Operating Systems

- Red Hat Enterprise Linux
- Fedora
- Ubuntu
- Arch
- macOS

Tools

- Oscilloscopes
- Wave Function Generators
- Multi Meters
- Soldering Equipment

Software

- Altera Quartus II
- Modelsim
- JetBrains IDE
- VisualStudio
- Qt Creator
- MessagePack
- Ansible

Activities

- Computer Science House
 - Living-learning community focused on technical projects, knowledge, and skills
- RIT Linux Users Group
 - RIT UNIX Enthusiast group dedicated to developing and spreading UNIX knowledge and skills
- FIRST Robotics
 - Head Electrician, Drive Team Technician
- Scouts of America
 - Eagle Scout
 - Order of the Arrow