

# KLAUS CURDE

Software and DevOps Engineer seeking a Spring or Summer 2021 Co-op/Internship

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## PROJECTS

**ritlinks** | Aug 2020 - Present

[github.com/klauscurde/ritlinks](https://github.com/klauscurde/ritlinks)

- Used Django to create a dynamically generated website that lists a collection of all the websites RIT makes available to students as well as their descriptions.
- Employs the Nginx webserver run on Fedora Linux.
- Helps new students understand which services do what, and has administrator accounts to manage adding and removing content as relevant.
- Runs in a Docker container.

**HuntedRC Car** | May 2018 - July 2020

[github.com/Hunted\\_RC\\_Car](https://github.com/Hunted_RC_Car)

- Designed the electronic internals of a remote control car that can be controlled from up to 1 kilometer away.
- Uses an NRF24L01 wireless module with a self-designed wireless protocol, an L298N H-bridge motor controller, and Arduino Mega and Nano microcontroller boards.
- Coded in C++ and uses a custom designed controller. Internals are a prototype for modifying a Barbie Jeep to be wirelessly controlled as a safe, moving hunting target.

**LifeSym** | Jan 2020 - July 2020

[github.com/klauscurde/LifeSim](https://github.com/klauscurde/LifeSim)

- Programmed a Java application that simulates the human body to provide health recommendations.
- Utilizes Metabolic Equivalent (MET) data values sourced from an academic paper to calculate an estimate of the amount of calories consumed during specific activities.

**CookC** | Apr 2020

[github.com/klauscurde/CookC](https://github.com/klauscurde/CookC)

- Wrote a small game in Python that exists entirely as an array displayed in a character LCD.
- Runs on a Raspberry Pi Zero W that is connected to the internal power of a ThinkPad X230 laptop.

## EXPERIENCE

**FTC Robotics Robot** | Sep 2017 - May 2019

**FIRST Tech Challenge**

- Supervised an FTC Robotics team as the lead programmer and one of its founding members.
- Advanced to a state competition.
- Wrote the codebase in Java using the ftc\_app library.
- Mentored other members for them to be able to continue maintaining the project.

## EDUCATION

*Rochester Institute of Technology*

**Software Engineering B.S. 3.44 GPA**

📅 Graduation: May 2024

## COURSES

**Digital System Design 1**

- Currently learning how to design, optimise, and implement logical circuits, including decoders, multiplexers, adders, flip flops, etc.
- Digital system simulating with VHDL.

**Intro to Software Engineering**

- A course diving into software engineering practices.
- Working as a group using the SCRUM Agile process.
- Learning the Spark framework and automated unit testing.

## SKILLS

Java

Python

C++

C

HTML

CSS

Bash

Linux

Django

Docker

LDAP

Arduino



## ACTIVITIES

**Computer Science House**

System Administrator | Oct 2020 - Present

Member | Aug 2019 - Present

**RIT Residence Life**

Resident Advisor | Aug 2020 - Present