

DOMINIK RITZENHOFF

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Education

Northeastern University

Sep. '18 - Dec. '22

Bachelor of Science in Computer Engineering and Computer Science

- GPA: 3.8, Dean's List
- Courses: Computer Systems, Networks, Probability and Statistics, Object Oriented Design, Algorithms, Embedded Design

Experience

Starry Internet

Jul. '21 - Dec. '21

Systems Software Engineer – C++/Rust/Bash

- Added diagnostic CLI tooling for customer support by extending Rust gRPC client, C++ gRPC server, drivers, and adding new Protobuf messages
- Implemented collectd plugin to record network traffic, errors, and register values with added integration in Grafana
- Added watchdog program to raise alarms when voltage level for voltage controlled crystal oscillator went above a set threshold

Seidel

Jan. '20 - Aug. '20

Automation Engineer

- Prototyped an automated part reorientation and loading process for anodization line capable of handling 180 parts every 30 seconds
- Automated 3-person assembly machine and increased part-per-minute output by 30%

River Lab

Jan. '22 - Apr. '22

Robotics Researcher

- Learned Robot Operating System (ROS) and used hyperspectral imaging with RGB-D camera to identify different types of objects to enable robotic pick-and-place motions

Projects

Dinner Rotation Slackbot – Go

Developed slackbot with Go, MongoDB, and Slack API to manage a dinner rotation between my housemates

KLIP API – Python

Developed Django REST API with MySQL for an app that provides females with a quick way of calling for help when running

Carbon Attackman – Python

Designed a Pacman-like game to teach 4th graders about the positive impact of carbon sequestration on global warming

Skills

Proficient: Python, Java

Familiar: C/C++, Typescript, Go, Rust

Personal Growth

No Limits Dance Group Learned to hip-hop dance for the suave moves

Gap Year Independently traveled around Europe, became fluent in German, and made lifelong friends