

DANIIL ROSE

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EDUCATION

The Pennsylvania State University **University Park, PA**
B.S. in Computer Engineering *December 2026*
B.S. in German with an emphasis in Business and Engineering *Cumulative GPA: 3.67*
Minoring in International Engineering and Cybersecurity Computational Foundations

Massachusetts Institute of Technology **Online**
High School Summer Program *July 2020 – August 2020*

EMBEDDED SYSTEMS EXPERIENCE

Peraton/Remotec **Reston, VA**
Systems Engineering Intern – Defense Mission Systems (BU) *June 2023 – August 2023*

- Utilized ROS, Webots, and GNU/Linux to architect modular software systems for mobile bomb-disposal robots
- Reverse-engineered abandoned internal cloning software codebase to customize open-source disk imaging for streamlined OS deployment
- Advised cross-functional teams on integrating new features within existing codebases and dependencies

quub **Lancaster, PA**
Satellite Engineering Intern *October 2020 – June 2022*

- Programmed embedded devices in C and Rust using FreeRTOS to run experimental satellite payloads
- Constructed an interactive miniature satellite tracker using Python and RPi to visualize orbit positions
- Designed reliable power distribution via solar panels, batteries, and buck converters for low-earth orbit satellites

RELEVANT SOFTWARE EXPERIENCE

quub **Lancaster, PA**
DevOps Engineer *June 2022 – June 2023*

- Administered Docker and Kubernetes clusters to containerize and orchestrate internal microservices
- Advised developers on best practices for architecture, security, and scalability

Contractor **New Holland, PA**
Software Engineer *February 2020 – June 2021*

- Engineered chatbots and data pipelines in Python, leveraging NLP and machine learning techniques
- Collaborated with clients to gather requirements, propose solutions, and deliver polished products

Ruben Engineering **Santa Barbara, CA**
Backend Software Engineer *March 2020 – March 2021*

- Architected REST APIs and database schema to power mobile and web applications
- Implemented core app logic and CRUD operations using PHP, Laravel, MySQL, and Vue.js

EmacsConf **Online**
Presenter *November 2021*

- Presented to an international audience on applying Emacs principles to computational workflows
- Fielded live Q&A to further discuss perspectives on text editors as thinking tools

LEADERSHIP AND INVOLVEMENT

President, *Association of Residence Hall Students – On-Campus Student Government*, Penn State University
Projects Committee Member, *Institute of Electrical and Electronics Engineers – Nittany Chapter*, Penn State University
Eagle Scout, *Boy Scout Troop 172*, Terre Hill, PA

SKILLS

Programming Languages: C, Python, Rust, Java, Bash/Shell Scripting

Human Languages: English (Native), Russian (Native), German (B1)

Tools: GNU/Linux, FreeRTOS, Git, Docker, Kubernetes, ROS, Emacs, Vim