

DALTON LUCE

Boston, MA

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EDUCATION

Cornell University

Expected 2026

Bachelor of Science in Electrical and Computer Engineering, CS minor

Ithaca, NY

- 4.028 GPA, Dean's List all semesters
 - James E. Rice Jr. First Year Writing Seminar Award Nominee
 - Autobike Project Team Software Lead, IEEE at Cornell Executive Board, Cornell Outdoor Education Student Athletic Instructor, Cornell Club Swim Vice President
 - Relevant coursework: Differential Equations, Linear Algebra, Functional Programming; OOP and Data Structures, Data Science, Digital Logic and Computer Organization, Embedded Systems
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EXPERIENCE

RTX

Woburn & Marlborough, MA

Software Engineer, Intern

Summer 2024

- Developed Perl tooling using Git and GitLab to enhance DevSecOps pipeline serving over 1000 users
- Built custom tools to monitor infrastructure stability across hundreds of servers with diverse configurations
- Analyzed trends using Grafana to inform data-driven improvements in the DevOps pipeline
- Jira administrator: created and configured projects for software teams, leveraged Groovy scripting to automate project processes.
- Jenkins administrator, updated and debugged CI/CD jobs related to infrastructure stability and code validation
- Monitored test failures in product branches and validated C++ code changes, ensuring smooth integration into the baseline and maintaining code integrity across releases

Software Engineer, Intern

Summer 2023

- Worked on X-Band Radar software with 1,000,000+ lines of source code.
- Learned Ada programming language, ClearCase version control, and Jenkins to correct software bugs and feature development
- Assisted in redevelopment of tool allowing better testing of capabilities of radar software
- Collaborated closely across teams of system engineers, validation teams, and software developers to ensure accurate code functionality and resolve issues efficiently
- Participated in daily scrum, sprint planning and backlog refinement.

Cornell Autonomous Bicycle Project Team

Ithaca, MA

Software Subteam Lead

Summer 2024—Present

- Defining technical goals and allocating tasks tasks for team of 8
- Onboarded and mentored new team members, providing training on project architecture and tools
- Collaborate with cross-functional teams, including hardware and mechanical subteams, to integrate software solutions into bike
- Automated CI/CD pipelines using GitHub Actions, catching code regressions
- Set up Docker and ROS infrastructure, streamlining the development and deployment process for autonomous navigation systems

Navigation Developer

Fall 2022—Spring 2024

- contributed to repository with 25k+ lines of source code
 - Researched optical flow techniques to predict future occupancy grids using OpenCV
 - Developed Python bicycle dynamics algorithms using numpy to predict future bicycle states
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SELECTED ENGINEERING PROGRAMS

Hajim School of Engineering & Applied Sciences Pre-College Intensive

Summer 2021

University of Rochester

Virtual

- Attended competitive 20-student cohort three-week intensive studies program completing week-long modules in electrical and computer engineering, data science, and biomedical engineering.

Luddy Pre-College Summer Computing & Engineering Summer Program

Summer 2021

Indiana University, Luddy School of Informatics

Virtual

- Attended a week-long pre-college exploratory program that covered topics such as intelligent sound-processing, microbiome gene sequencing, 3D modeling.
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TECHNICAL SKILLS

- **Languages:** OCaml, C, C++, ADA, Java, Python, JavaScript/HTML/CSS, Bash
- **Frameworks:** ROS, Svelte
- **Developer Tools:** Git, Docker, Jenkins, Grafana, ClearCase