DALTON C. LUCE

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EDUCATION

Cornell University School of Engineering **Ithaca, NY**

- Bachelor of Science, Electrical and Computer Engineering/Computer Science minor Expected 2026
- 4.062 GPA, Dean's List all semesters
- James E. Rice Jr. First Year Writing Seminar Award Nominee
- Autobike Project Team, IEEE at Cornell Executive Board, Cornell Outdoor Education Student Instructor, Cornell Club Swim
- Relevant coursework: Calculus for Engineers; Multivariable Calculus for Engineers; Differential Equations for Engineers; Linear Algebra for Engineers; Physics II: Electromagnetism; Physics III: Oscillations, Waves, and Quantum Physics; Data Structures and Functional Programming; Object-Oriented Programming and Data Structures; Data Science for Engineers; Digital Logic and Computer Organization; Embedded Systems

Acton-Boxborough Regional High School **Acton, MA**

- National Merit Finalist and Raytheon Scholar, Class of 2022 2018-2022
- Unweighted 3.95 of 4.0 GPA; weighted 4.7 of 5.0 GPA, 35 ACT
- AP Scholar with Distinction. Advanced Placement Scores of 5 in AB Calculus, Biology, Computer Science A, Physics C: Mechanics, and Statistics
- One of only 369 students globally (0.47%) to earn every point on the AP Computer Science A exam
- Dartmouth Book Award—presented to a junior for outstanding academic achievement and leadership
- National Honor Society, Swim and Dive Captain, Band Vice-President, Marching Band Section Leader, Junior and Senior Class Leader, Student Ambassador

EXPERIENCE

Software Engineer, Intern, RTX, Woburn, MA Summer 2023, Summer 2024 (committed)

- Worked on X-Band Radar software. Learned Ada language, ClearCase, Jenkins to support correcting software bugs and new development. Assisted in redevelopment of tool allowing better testing of capabilities of radar software. Participated in daily scrum, sprint planning and backlog refinement

Cornell Autonomous Bicycle Project Team, Ithaca, NY 2022-present

- Member of the Navigation team. Reinforcement learning to determine optimal bicycle routing, Docker, Python. Optical flow and computer vision techniques to predict future occupancy grids, OpenCV

Software Testing Intern, Tholyl Technologies, Acton, MA 2022

- Tested and reported bugs, provided insight into development of software product. Managed website

SELECTED COMPUTER SCIENCE AND ENGINEERING PROGRAMS

University of Rochester, Hajim School of Engineering & Applied Sciences Pre-College Intensive Summer 2021

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

Indiana University, Luddy School of Informatics, Computing & Engineering Summer Program Summer 2021

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

AI Scholars, InspiritAI Spring 2021

- Attended the advanced cohort of a ten-week high-school intensive on Artificial Intelligence taught by Stanford and MIT alumni and graduate students. Completed a simulated project using machine learning techniques to improve public health by predicting a SARS-CoV-2 lineage country of origin using its genome

PROGRAMMING SKILLS

- OCaml, C, C++, Java, Python, JavaScript/HTML/CSS, Git, Bash