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## Education

I am a senior at Greely High school (Class of 2025) who has taken college-level courses such as Calculus B, Calculus C, Linear Algebra, Discrete Math, and Ethics.

AP classes include AP Physics C Mechanics: 5, AP Calculus BC: 5, AP Biology: 5, AP Language and Composition: 5.

AP Statistics, AP Physics C Electricity and Magnetism, IB Latin IV in progress  
## Experience

- **Author** | *Quantum Mechanics for Kids: a Humorous, Easy-to-Read, Math-Free Book on a Very Perplexing Subject* | 2019 | Goodreads
- **Wolfram Summer Research Program** | *Novel Minimal Universal Classical and Quantum Gates* | 2024 | Project | Paper
- **Wolfram Emerging Leaders Program** | Year-long intense mathematical research on a student team studying functional roots | 2024–2025 | Project
- **Programming Adventures** | Weekly collaborative think-tank sessions, assisting in solving problems in topics such as neural networks and recursive functions.
- **World Science Scholar** | Completed two years of challenging coursework in topics such as general relativity, computational analysis, and evolutionary medicine | 2021–2024
- **MIT Beaverworks Summer Institute** | Quantum Software | 2023 | Presentation
- **University of Waterloo Quantum School for Young Students** | 2021

## Awards and Honors

- **Nonfiction Authors Association Book Award** | Silver Medal | 2019
- **Rise for the World** | Global Finalist | for Creating STEM Communication Videos | 2023
- **XVII Golden Key International Piano Composition Competition** | “For Lewiston” | 2023
- **Samsung Solve for Tomorrow Challenge** | 1st in Maine | Treating water for PFAS chemicals | 2023
- **Kotzschmar Memorial Trust Music Scholarship** | For Organ Performance | 2023
- **Winter Serenade Competition** | 1st Place | 2024 | Performance at Methuen Memorial Hall
- **Presidential Scholars Candidate** | 2025
- **National History Day in Maine** | Year-long research projects for the National History Day Competition:

- **Leo Szilard and the Atomic Bomb** | 1st place website | 2019
- **George Lemaitre and the Big Bang Theory** | 1st place website | 2020
- **Claude Shannon and Information Theory** | 2nd place website | 2021
- **Bohr, Einstein, and the Debate of Modern Physics** | 1st place paper | 2022
- **National Merit Finalist** | 2024
- **National Latin Exam** | Gold Medal | 2024
- **All Eastern Honor Choir** | 2022
- **Maine Celebration of Young Musicians for Organ Performance** | 2019
- **Children’s Choir PortOpera’s production of *Carmen*** | 2018
- **3M Discovery Education Young Scientists Lab Competition** | 1st in Maine | 2018

## Service and Extracurricular

- **Mentor** | Junior World Science Scholars | 2023–2024
- **Junior World Science Scholars Workshop Presenter** | “Quantum Computing: Using Physics to Exponentially Increase Computing Power” | 2023
- **Author Talks and YouTube Channel** | On topics like quantum mechanics, calculus, artificial intelligence, and more; to spark curiosity for math and science in kids and in everyone | 2019–2024
- **Guest Organist** | Basilica of Saints Peter and Paul, Lewiston, Maine | 2023 and 2024 | Recording
- **Psalterium Institute of Maine Chamber Choir** | 2023–2025
- **Basilica of Saints Peter and Paul Choir** | 2023–2025
- **Musical Volunteer** | Brentwood Rehab Center | 2023–2024