

Luka Dolgov 414-708-5494, luka.dolgov@gmail.com

Student at Yale University, Class of 2028

Website: LukaDolgov.github.io · GitHub: <https://github.com/LukaDolgov>

STEM and Technical Experience

High School Experiences – *Grade 9-12*

- **Robotics club** – *president, Greenwich High school - Grade 11-12*
 - Learned skills to develop 3D imaging of robots and manage robot chassis components using Autodesk Inventor. Coding in Python with VEX libraries for robot movement.
 - Generated \$2500 from bake sales and PTA allowance through grant applications, exceeding competition expenses and requirements by 150%
- **Engineering Summer Program** - *Accepted Student/Attendee, Wellesley College - Grade 10*
 - Collaborated with a research group to develop Artificial Intelligence (AI) using MIT data sets for evaluation.
 - Developed AI program in Python that exhibited 71% image recognition ability from 12 possible image types.
 - Optimized robotics materials design, soft chemical components, and electronic component management.

Self-Study/Development skills

- **Mechanical Skills** – *Personal interests*
 - Coded aerial navigation systems with MATLAB simulations through UPenn online course (2023), aviation physics.
 - Learned computer vision techniques, math theory behind AI, optimization techniques (Summer 2023)
 - Studied from Coursera- IBM Machine learning and deep learning course completion, Introduction to Engineering Mechanics (GATech course) completion (2024)
- **Programing Abilities** – *Additional projects can be found on my GitHub and website above*
 - Fluent in C, JavaScript, HTML, CSS, Python, including PyTorch and machine learning libraries
 - experience with Java, MATLAB, Cpp, React, and Node.js framework.
 - Developed Community-based cleanup website
 - Developed backend code for congressional app challenge website (2023)
 - Selected for 3rd place by Congressman Jim Himes for our district

Additional

- **Violist** – *Yale Symphony Orchestra – Freshmen year – present*
 - All-State Orchestra player in high school
- **Languages:** English-Native, Spanish-Advanced Level
- **For Fun:**
 - Chess player, 1650 online rating
 - Yale Poker Club
 - Powerlifting/gym