

Kaleb Gezahegn

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GitHub: [KalebGz](https://github.com/KalebGz)

EDUCATION

Yale University, New Haven, CT; Class of 2023

- **Electrical Engineering and Computer Science B.S.**
- Yale x Flatiron, Introduction to Full-Stack Web Development Bootcamp

Woodrow Wilson Senior High School, Washington, DC; Class of 2019

- **Tiger Pride Robotics Team** (*Captain, Lead Electrician and Programmer*); CS Pathway (*Founder, President*)

EXPERIENCE

Yale Social Robotics Lab, *Undergraduate Researcher*

Jun 2021 – May 2023

- Published paper incorporating human supervision in the representation learning process to compute visual object representations tailored for introducing robots into Material Recovery Facilities
- Designed and trained pick detection models and system architecture for detecting and identifying items removed from a conveyor belt by a human subject
- Optimized collaborative robotic system's vision capabilities through image stitching and fiducial markers

ValidaTek

JSP Pentagon Intern / **Secret Clearance**, Remote

Jun - Aug 2022

- Streamlined onboarding, offboarding, and Common Access Card renewal processes

VSET Research Intern, McLean, VA

Jun - Aug 2019

- Researched performance and applications of AWS Lambda, Amazon's FaaS tool, in current contracts
- Implemented object classifier demo using Vue.js, AWS S3, and AWS Lambda backend

NAF Academy Summer Internships; Washington, D.C.

Acquired Data Solutions, Intern

Jun - Aug 2018

- Designed and prototyped a gas-detecting drone using Arduino Nano and a custom body

NASA Human Powered Rover Challenge, *Mechanical Engineering Intern*

Jun - Aug 2017

- Designed, modeled, and prototyped collapsible half-scale chassis and suspension system

LEADERSHIP | ACTIVITIES

Funbotics

Sep 2019 – Present

- National Organization [*Vice President of Operations*]: Manage day-to-day operations and team members
- Yale [*Co-President, Technology Lead, Board Member*]: Organize workshops for 240 local under-resourced middle schools to engineering concepts through VEX Robots and engaging custom curriculums

Other Activities

- Science Technology and Research Scholars Mentor, Yale IEEE, C-2 Club Soccer, Yale Ethiopian and Eritrean Student Association, National Society of Black Engineers, Yale Skateboarding Union

AWARDS

- **Gates Scholar** | **QuestBridge Scholar**: Full-ride college scholarships
- **Economic Club Scholar**: \$20,000 College scholarship awarded to 54 scholars from the DC Public School System
- **Google CSRMP**: Mentorship program that pairs google researchers with scholars from marginalized backgrounds

PUBLICATIONS

- **Tailoring Visual Object Representations to Human Requirements**: A Case Study with a Recycling Robot
Conference on Robot Learning (CoRL), Auckland, New Zealand

SKILLS

Programming Languages: C, Python, Ruby, Java, Racket, Basic JS

Tools/Frameworks: Ruby on Rails, ROS, 3D printing, Basic CAD, FPGA's and Verilog, Multisim

Languages: English, Amharic (Native Proficiency), Spanish (Limited Working Proficiency)