

Jordan Vogel

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Mechanical Engineering
GPA: 3.890

Expected May 2027

High School GPA: 4.2/4.3
ACT: 35

Relevant Courses: Statics and Mechanics of Solids, Thermodynamics, Linear Algebra, Statistics, Multivariable Calculus, Intro to Operations Research, Physics 1: Mechanics, Differential Equations, Physics 2: Electricity and Magnetism

PROFESSIONAL EXPERIENCE

Cornell Electric Vehicles Project Team, Cornell University, *Steering Member*

Sep 2023-present

- Collaborate with a group of 75+ to make hyper-efficient autonomous electric vehicles
- Use CAD software and mechanical engineering principles to design parts of the steering system
- Designed a parking brake that can keep the vehicle stable on a 20% incline
- Increased reliability of the parking brake by implementing a hydraulic line lock into the braking system and reducing the number of overall parts in the assembly
- Rapid-prototyped and manufactured a custom aluminum mount for the parking brake
- Designed a gearbox that allows the vehicle to steer itself via stepper motor and seamlessly transition between autonomous and manual steering with an electromagnetic clutch
- Selected gears, bearings, shafts, shaft couplers, and motor to achieve optimal torque output necessary to actuate steering column
- Performed static analysis of gearbox to reduce potential failures in torsion, bending, and normal stress

Long Island Children's Museum, *Visitor Services Associate*

Jun 2023-Aug 2024

- Worked in the box office selling admission tickets and memberships

LEADERSHIP EXPERIENCE

Student Government, *Student Body Treasurer, President*

Apr 2021 -Apr 2023

- Lead weekly meetings with 13 members to plan events and fundraisers for the student body
- Managed the student government's funds and made the budget for events like Winter Formal
- Founded and operated a snack store which made over \$4,000 in revenue
- Planned the annual retreat, a 4-day trip for the entire high school, for two consecutive years
- Wrote and produced a live sketch comedy show called Schechter Night Live in March 2022 and December 2022

Robotics, *President*

Sep 2019-Mar 2023

- Designed and fabricated a new robot every year to compete in the semiannual CIJE robotics competition
- Held weekly meetings with 15 members to go over design plans and assign tasks
- Spearheaded new member education by holding Robotics Bootcamp where students learned the basics of VEX part assembly
- 2nd Place Overall in Winter 2021 and 1st Place in the Autonomous Category in Spring 2022

CAMPUS INVOLVEMENT

Humor Us!, Cornell University, *Member / Social Media Coordinator*

Sep 2023-present

- Write and perform a live sketch comedy show once a semester
- Manage the group's Instagram page and create flyers for shows

Grinspoon Hillel, Organizational Design Intern

Aug 2024- present

- Organize one-on-one meetings with Jewish students to determine how Hillel can better serve the community

SPECIALIZED SKILLS

Programs: AutoCAD Inventor, Manual Machining, Java, JavaScript, HTML, CSS, Arduino, Excel, POS

Languages: Hebrew (fluent)