

James Kurtis

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2028

Bachelor of Science in Mechanical Engineering, Business Minor for Engineers

Relevant Courses: Calculus I, II, III, Physics I, II, Statics & Mechanics of Solids, Thermodynamics, Differential Equations.

GPA: 3.59

Xavier High School, New York, NY

Sept 2020-Jun 2024

Ignatian Scholar, AP Scholar with Distinction

GPA: 4.0

TECHNICAL EXPERIENCE

Cornell Racing FSAE Project Team, Cornell University, *Accumulator Sub-team Member*

Oct 2024-Present

- Initiated and managed communications with multiple potential sponsorships and materials suppliers.
- Assisted in new member onboarding, reviewing 40+ applications and conducting interviews.
- Redesigning and manufacturing the Accumulator Container, pioneering composite materials use for this part.
- Designed and manufactured the ARG25 LV Box using CAD and 3D printing to prototype components.

Aesthetic Wrks, Hempstead, NY, *Car Detailing Apprenticeship*

Jun-Aug 2025

- Collaborated with technicians to detail vehicle interiors and exteriors using industry-grade tools and chemicals.
- Installed vinyl wraps and protective films; performed minor bodywork on high-performance and luxury vehicles.
- Shadowed and assisted in engine maintenance such as oil changes and spark plug replacements.

3D Printed Car Derby, Xavier High School, NY, *First Place Finisher*

Jan-June 2024

- Utilized Rhino 7 to create a detailed aerodynamic car body model, validating designs through iterative refinement.
- Won 1st Place in each of 3 competitive race events, surpassing peer designs in speed and structural integrity.
- Collaborated with peers by contributing design solutions while independently constructing individual cars.

LEADERSHIP EXPERIENCE

Asian Defense Alliance, New York, NY

Sept 2022-June 2024

- Joined an initiative to raise awareness of Asian culture and put an end to anti-Asian hate crimes.
- Co-led community workshops, teaching self-defense and street safety practices to 1000+ people.
- Trained and mentored **10+** volunteers in self-defense instruction, building teamwork and consistency in workshops.

Varsity Wrestling, Xavier High School, *Team Captain*

Nov 2022-Feb 2024

- Elected by peers to lead practices and instruct a 60-person team, strengthening leadership and communication skills.
- Qualified for and competed in CHSAA state championship among 20 other regional competitors.

First Degree Black Belt, Valor Mixed Martial Arts, NY

2012 - Present

- **Achieved 1st degree black belt** in Kaju Bujutsu Kwai, reflecting 13 years of sustained discipline and perseverance.
- Performed technical forms on the leadership team; mentored junior students, fostering teamwork and excellence.

WORK EXPERIENCE

Valor Mixed Martial Arts, New York, NY, *Instructor*

June-Aug 2021

Current Home, New York, NY, *Warehouse Associate*

June-Sep 2022

SKILLS

CAD, Autodesk Inventor, Rhino 7, Python, 3D Printing, Microsoft Office

INTERESTS

Competitive Racing, Formula One (McLaren), Mixed Martial Arts, Electric Guitar, Scuba Diving (PADI open water certified), Surfing (Fort Pierce, Florida).