

Joseph M. Dalton

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Mechanical Engineering
Cumulative GPA: 3.91

Expected May 2027

HONORS & AWARDS

- Dean's List all semesters
- NMSQT Letter of Commendation Recipient

COURSES

Statics and Mechanics of Materials | Mechanical Design | Dynamics | Fluid Dynamics

EXPERIENCE

Cornell Electric Vehicle Sept 2025-Present
Chassis Subteam Member

- Partnered with 50+ engineers across subsystems to deliver a 20.5 mi/kWh autonomous electric vehicle
- Executed carbon-fiber layups: mold prep, Duratek spray, resin ratios, and precise fiber placement
- Prepared and sanded molds to exact tolerances, enabling smoother surface finish and stronger fiber bonding
- Practiced advanced CAD surfacing in Autodesk Alias to model chassis geometries, building skills to support future aerodynamic and structural optimization studies.

Cornell CSalt Sept 2024-Present
Membrane Engineer

- Winners of the 2025 Marine Energy Collegiate Competition technical design challenge.
- Researched and designed reverse osmosis filtration system for wave-powered desalination device.
- In charge of procuring, testing, & integration of carbon pre-filter into reverse osmosis filtration system.

Undergraduate Teaching Assistant—Thermodynamics Aug 2025-Present

Cornell University, Ithaca, NY

- Facilitated weekly discussion sections for students to reinforce concepts learned in lecture
- Guided students through problems in areas such as energy balances, cycle analysis, and evaluating properties during office hours and review sessions

ADDITIONAL SKILLS

Microsoft Word and PowerPoint; Adobe Photoshop.

Experience in coding such as MATLAB and Java.

Experience in AutoCAD, Fusion360, and Ansys.

Machine shop certified.

ACTIVITIES

- **Cornell University Men's Club Swim**, Captain: Provided leadership to team for 2024 season.
- **Cornell University Car Club**, Member: Attended club meetings and gained valuable ownership insight from car owners.