Lola Castrillon

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OBJECTIVE

To secure an engineering internship offering hands-on design experience and opportunities to strengthen problem-solving skills.

EDUCATION

Cornell University, College of Engineering, Ithaca, NY   **Expected May 2028**
Bachelor of Science, Mechanical Engineering
GPA: 2.83

Ossining High School**,** Ossining, NY   Diploma Received June 2024
GPA: 4.20; High Honor Roll; National Honor Society

Relevant Courses: Statics & Mechanics of Solids; Thermodynamics; Differential Equations for Engineers; Multivariable Calculus for Engineers; Intro to Computing: Design & Development; Engineering General Chemistry

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RESEARCH EXPERIENCE

Distinguishing Abiotic & Biotic Time Series using Epsilon Machine Reconstruction, Ossining High School, *Science Research Program*   **2021-2024**

- Application to Regeneron Science Talent Search ~ Nov 2023
- Regeneron Westchester Engineering & Science Fair Ingenuity in Math, Physics & Astronomy Award ~ Mar 2024
- Research Mentors: Dr. Michael Wong (Carnegie Institution for Science's Earth & Planets Laboratory); Dr. Stuart Bartlett (California Institute of Technology)
- Developed a novel information-theory-based method using Epsilon Machine Reconstruction to analyze and characterize complex time series data
- Applied the method to diverse datasets to quantify complexity and entropy
- Analyzed possible benchmarks differentiating biotic and abiotic systems

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CAMPUS INVOLVEMENT

Delta Delta Delta National Panhellenic Sorority, Cornell University, *Member*   **Jan 2025-Present**

ADDITIONAL EXPERIENCE

Parth Knolls, Ossining, NY, *Lifeguard*   **2025-Present (June-Sep)**
Den of Wax, Ossining, NY, *Sales & Data Inventory*   **Dec 2023-June 2024**
Caltech GPS Astrobiology Summer Reading Course, Virtual, *Student*   **June-Aug 2023, June-Aug 2024**
Club Fit Aquatics Briarcliff Manor, NY, *Lifeguard*   **Apr 2023-Present**
Purdue Aerospace & Aeronautical Eng Exp, West Lafayette, IN, *Student*   **July 2023**
Torview Swim & Tennis Club, Ossining, NY, *Lifeguard*   **2021-2024 (May-Sept)**

SPECIALIZED SKILLS

Programs: CAD (Onshape), MATLAB, Java, Python, Excel