

# Ella Johnson

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## SUMMARY

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Motivated and hardworking Mechanical Engineering student seeking internship opportunities to put classroom knowledge into practice in a real world setting.

## SKILLS

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Adaptability • Technical Writing • Leadership • Collaboration • Autodesk Fusion 360 • MATLAB

## EDUCATION

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**Cornell University** Ithaca, NY  
**Bachelor of Science, Mechanical Engineering** Expected May 2027

- Minor in Theater

**Nile C. Kinnick High School** Yokosuka, Japan  
January 2021 - May 2022

- Honors Diploma

## EXPERIENCE

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**General Dynamics Electric Boat** New London, CT  
**Intern - Structural Design and Engineering** May 2025 - Present

- Develop and revise technical calculation reports verifying the adequacy and compliance of engineering designs of new Virginia-class submarine hull and non-pressure hull structural designs
- Perform finite element analysis to determine acceptability of designs
- Lead effective kickoff and follow-up meetings that establish project goals, track progress, and maintain stakeholder alignment.

**Soundview Family YMCA** Branford, CT  
**Swim Instructor, Lifeguard, Membership Services Representative** January 2024- Present

- Instruct group and private lessons to swimmers ages 3 to 12 to develop skills and confidence in water. Adapt lesson plans to the needs and temperaments of the students while maintaining curriculum requirements.
- Monitor and ensure safety of patrons in water and on pool deck by administering first aid and responding promptly to emergencies. Communicate clearly and effectively to patrons pool rules, safety protocols, and emergency procedures.
- Ambassador of all YMCA programs with a focus on membership and member engagement.

**Cornell Big Red Pep and Marching Bands** Ithaca, NY  
**Trombone Section Leader, 2023 and 2025 Pep Social Chair** September 2022 - Present

- Perform at weekly rehearsals and university athletic events, contributing 10–15 hours per week to support team spirit and band performance
- Lead section activities, assisting with new member recruitment, onboarding, and training on music, drills, and band procedures.
- Plan and coordinate social events by securing venues, arranging food, managing required documentation, and communicating logistics with band members.

## ADDITIONAL INFORMATION

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**Honors/Awards:** Salutatorian; National Merit Scholarship Finalist; AP Scholar With Distinction; Dean's Lists (Spring 2025)

**Relevant Classes:** Statics and Mechanics of Solids, Intro to Mechanical Design, Dynamics, Thermodynamics, Introductory Fluid Mechanics, and Mechanics of Materials