

# 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 • Communication • Leadership • Collaboration • Critical Thinking

## EDUCATION

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

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

## EXPERIENCE

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

- Wrote and revised technical calculation papers detailing adequacy of design
- Performed finite element analysis to determine acceptability of design
- Planned and ran meetings to kickoff and check progress on projects

**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. Develop and maintain positive relationships with volunteers, members, program directors, and colleagues at all levels of the organization.

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

- Attend weekly rehearsals and perform at school sporting events in support of team and fans, 10 - 15 hours per week.
- Assist with new member recruitment and orientation to bands including assistance with songs, drills, and other band related questions.
- Plan social events including securing meeting spaces, arranging food orders, completing waivers, and communicating plans with band members.

## ADDITIONAL INFORMATION

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**Honors/Awards:** Salutorian; 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, System Dynamics, Mechanics of Materials