

# TYSON RUSSELL

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## EDUCATION

### Cornell University, Sibley School of Mechanical and Aerospace Engineering

Bachelor of Engineering in Mechanical Engineering

Intended Concentration: Renewable Energy

Ithaca, NY

Exp. Graduation: May 2028

Overall GPA: 3.99/4.00

## PROFESSIONAL EXPERIENCE

### Cornell Outdoor Education

Routesetter, Backpacking Guide, Climbing PE Instructor

Ithaca, NY

October 2024 – Present

- Teach climbing techniques, belaying, and risk management to students; design and set dynamic routes to challenge climbers of all levels
- Lead multi-day backpacking trips and hands-on climbing sessions, fostering teamwork, skill progression, and confidence
- Ensure safety via equipment checks, route testing, and protocols; create engaging movement sequences and tailored competition routes
- Completing training in outdoor leadership, DEI, conflict resolution, and community building to support inclusive outdoor programs

### Cornell Engineering

ENGR 1165 Teaching Fellow

Ithaca, NY

September 2025 – Present

- Facilitate weekly discussion sections for students in *Climate Change and You, the Engineer*, through the National Education Equity Lab
- Mentor Title I high school students, supporting their success in a rigorous Cornell course and expanding access to higher education
- Communicate regularly with classroom teachers to coordinate student progress and ensure alignment with course expectations
- Support course delivery by grading assignments, holding office hours, and assisting with program logistics as needed

### Lower East Side Ecology Center

Stewardship Intern

New York, NY

July 2025 – August 2025

- Maintained and watered native planting beds in Tompkins Square Park, supporting biodiversity and ecological restoration efforts
- Assisted with volunteer and stewardship events, engaging school, corporate, and community groups in hands-on park revitalization
- Organized and maintained tools and materials for education and stewardship programs, ensuring safe and efficient operations
- Contributed to environmental education by helping plan and deliver workshops for diverse audiences, including children and adults

### IXL Center

Digital Consultant

Ithaca, NY

April 2025 – June 2025

- Developed data-driven growth strategies for a local small business through LISC's digital accelerator program, focusing on scalability
- Conducted in-depth market research including competitor benchmarking and stakeholder interviews to uncover revenue opportunities
- Presented tech-enabled solutions to industry experts and our client, demonstrating analytical and problem-solving capabilities
- Mapped end-to-end customer journeys to identify key pain points and develop targeted experience improvements

### Idaho Conservation League

Environmental Activist Volunteer

Boise, ID

August 2021 – May 2024

- Raised \$2K to create interactive climate exhibit, presented it to 150+ attendees, including Jane Fonda, and donated it for permanent use
- Organized community events and wrote 10+ letters to reps, advocating for policy changes and raising environmental awareness
- Delivered 100+ letters to legislators and authored letters to the editor, driving action on key environmental issues
- Engaged academics and community members through educational activities, amplifying awareness of local and global climate stories

## LEADERSHIP & EXTRACURRICULAR

### Meinig Family Cornell National Scholars

Member

Ithaca, NY

August 2024 – Present

- Selected among top 2% of undergraduates for academic excellence and leadership in school, local, and regional communities
- Recognized for outstanding leadership, academic achievement, and commitment to serving and enriching diverse communities
- Developing leadership, community engagement, and service skills through bi-weekly events and training sessions
- Contributing to a prestigious program that fosters personal growth and prepares scholars for impactful leadership roles

### Cornell Rock Climbing Club

Co-PR Chair

Ithaca, NY

August 2024 – Present

- Manage the club's social media to promote competitions, outdoor trips, and community events, increasing visibility and engagement
- Coordinate outreach to expand awareness of the club while supporting its mission of inclusivity and accessibility in climbing
- Compete in the USA Climbing Collegiate Series and train weekly at Lindseth Climbing Center, aiding the club's competitive presence
- Participate in outdoor climbing trips and club events, developing teamwork and helping foster a welcoming climbing community

## ACTIVITIES, SKILLS, AWARDS, & INTERESTS

**Activities:** Brave Wave Surfing Club Co-Founder and President, Green Club, Young Democrats Vice President, National Honor Society, Boise Climbing Team, Service Club, Maintenance, Dishwashing, and Hosting at an Upscale Restaurant

**Skills:** Certified Management Consulting Analyst, Wilderness First Responder Certified, Working Proficiency in Python, Matlab, Spanish, Data Analysis, Microsoft Office Suite, Public Speaking and Presentation, Team Leadership, Learning SolidWorks and Fusion 360

**Awards:** BoiseDev Great Student Award, AP Capstone Seminar and Research Certificate, National Merit Finalist, US Presidential Scholars Candidate, Teachers' Choice Award, AP Scholar With Distinction

**Interests:** Climbing, Skiing, Backpacking, Surfing, Mountain Biking, Environmental Preservation, Rubik's Cubes, Crocheting, Artichokes