

# Alice Jones

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## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY

**Expected May 2027**

Bachelor of Science in Mechanical Engineering and Aerospace Engineering, **GPA: 3.96**

**The Joseph Whitaker School**, Rainworth, England

**June 2023**

4 x A-Levels including A\* in Mathematics, A in Physics and A in Chemistry

9 x GCSEs including 8 x Grade 9 (A\*\*) and 1 x Grade 8 (A\*)

*Selected Coursework:* Statics and Mechanics of Solids • Thermodynamics • Differential Equations • Multivariable Calculus • Electromagnetism • Entrepreneurship for Engineers • Microeconomics • Web Design and Development

## SPECIALIZED SKILLS

Technical: Python, Autodesk Inventor CAD, Fusion 360, MATLAB, Altium, Microsoft Office Applications, HTML, CSS, JavaScript, Photography, Videography

## ENGINEERING AND PROFESSIONAL EXPERIENCE

**Suspension Part Designer**, *Cornell Racing*, New York, NY

**May 2024 – Present**

- Collaborate with a team of 60+ students to develop and build an electric race car to compete in the FSAE Competition
- Responsible for the design, manufacture and testing of the inboard and outboard suspension clevises with a focus on reliability, ease of access and minimizing weight
- Communication with the suspension links, rockers, uprights, and monocoque designers to seamlessly mount and integrate with the rest of the car
- Present and defend engineering decisions throughout multiple stages of design reviews and feedback

**ESPN+ Sport Media Production Assistant**, *Cornell University Athletics*, New York, NY

**Aug 2023 – Present**

- Worked with a team of 8 people to broadcast live varsity sports for ESPN+
- 150+ hours of live camera operation, leading instant video replay and graphics work, with a focus on providing high quality, engaging content for a national audience
- Adapted our event set up for up to 10 different sports and collaborated to overcome inevitable challenges during live broadcast

**Physics and Astronomy Outreach Placement**, *Nottingham Trent University*, Nottingham, England

**Summer 2022**

- Worked on an educational outreach program, encouraging underrepresented groups to engage in physics and astronomy
- Operated the university's observatory telescope to film a sequence of the sky, with the footage being edited to be displayed in an inflatable planetarium for audience viewing
- Contributed to research on supermoons and created resources to analyze a subject's perception of the moon's size

## LEADERSHIP EXPERIENCE

**Competitive Swimming Coach**, *Sutton-in-Ashfield Swimming Club*, Nottinghamshire, England

**Aug 2019 – Present**

- 5+ years leading and assisting high-quality land and pool-based practices for swimmers aged 7-20 yrs
- Planned and delivered conditioning and technical workouts for swimmers of varying abilities, from complete beginners to national age-group champions
- Experience as an Assistant Team Manager, organizing 80+ swimmers at multiple county level competitions, providing technical feedback, personal motivation and offering support after each race

**Math Teaching Assistant**, *The Joseph Whitaker School*, Nottinghamshire, England

**Sep 2021 – May 2023**

- 2 years of tutoring a group of 15 high achieving GCSE Mathematics students with a focus on reinforcing material taught in lessons and providing practical, exam style problems to encourage deeper thinking
- 2 years of one-to-one work with C/D grade GCSE Mathematics students, with a focus on breaking complex problems into simpler, more manageable steps and instilling confidence and belief in their abilities

## ACTIVITIES/INTERESTS

Swimming: helped Sutton-in-Ashfield Swimming Club achieve promotion to Division 1 of The National Arena League, the highest level of club swimming in England; motorsport; sport media; videography; photography; website design