

Calder Russell

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EDUCATION

Massachusetts Institute of Technology	Cambridge, MA
<i>B.S. intended in Aeronautics & Astronautics and Mathematics</i>	2026 – 2030
Harvard University	Cambridge, MA
<i>Non-Degree Coursework: Dual enroll during High school</i>	2025 – 2026
• Courses: MATH 21B (Linear Algebra), STAT 110 (Probability), STAT 171 (Stochastic Processes)	
Cambridge Rindge and Latin	Cambridge, MA
<i>High school</i>	2022 – 2026
• GPA: 3.8 (unweighted)	
• Relevant Coursework: Multivariable Calculus, AP BC Calculus, AP Physics C (Mechanics & E&M), AP Computer Science A, AP Statistics, AP Chemistry	
• Languages: American Sign Language (3 years)	

EXPERIENCE

MIT CAVE Lab – Intern	Spring 2025 – Summer 2025
<i>Massachusetts Institute of Technology</i>	Cambridge, MA
• Built a Python/Django backend for a demonstration application used in lab tours and outreach	
• Improved upon the current framework for creating CAVE apps opening up possibilities for data to be shared between sessions.	
Federation for Children with Special Needs – Volunteer Data Analyst	Sep. 2024 – Present
<i>FCSN</i>	Boston, MA
• Analyzed program data and produced visualizations used in successful grant applications	
• Work contributed to over \$250K in awarded funding	
Paddle Boston – Dock Staff	Summer 2025 – Winter 2025
<i>Paddle Boston</i>	Cambridge, MA
• Managed equipment logistics and provided direct customer service in a high-volume setting	

PROJECTS

NASA Drop Tower Cad:Fusion 360, Onshape	Oct. 2024 – May 2025
• Selected Top 20 nationally in an engineering design competition	
• Designed CAD paddle-wheel mechanisms to operate under microgravity using capillary action	
• Accepted for microgravity testing at NASA	
CubeSat Python, CAD, Raspberry Pi, Electrical Engineering	Oct. 2024 – May 2025
• Designed a 1U CubeSat for space-based scientific research	
• Led system design and presentation; awarded Best Design/Presentation	

EXTRACURRICULAR

Drone Club – President	May 2025 – Present
• Led instruction in drone engineering and aerial photography	
• Coordinated with school and city officials to film and livestream community events	
Debate & Model United Nations	May 2025 – Present
• Debate Club Leader; designed lesson plans and taught debate skills	
• Plenary speaker at NHSMUN (3,000+ attendees); received NFL Degree with Distinction	

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS
Frameworks: FastAPI, Django
Developer Tools: Git, Docker, VS Code
Libraries: pandas, NumPy, Matplotlib, Open CV, PyTorch, NetworkX, OSM