

Steffan Dylan Jones

Cambridge, MA, 02138 • steffanjones@college.harvard.edu • (781)-296-4294

- Education -

HARVARD UNIVERSITY (Undergraduate)

Cambridge, MA

SB Candidate in Mechanical Engineering

Graduation Date: 2025

Relevant Modules: Mechanics of Solids, Heat Transfer, Material Science, Mechanical Systems, Computer-Aided Design, Fluid Mechanics, Electrical Engineering, Material Selection and Design, Electronic and Photonic Devices.

Thesis Project: Co-led the Harvard FSAE Aerodynamic Team: designed, tested, and fabricated FSAE aerodynamic components.

Course Assistant: In my senior year, I was the lead course assistant for the Fundamentals of Heat Transfer course (ES183).

- Experience -

Alesi Surgical Ltd (Assistant Engineering Intern)

Cardiff, UK

Contributions Include:

June - August 2024

- Collaborated with 2 other engineers in the design and development of the IonPencil, conducting tests to determine the optimal material choice, taking into consideration many factors, including surgeon satisfaction and cost efficiency.
- Conducted rigorous comparative testing, proving the IonPencil's capability to outperform competitor smoke evacuation systems, minimizing OR smoke exposure, reducing viral particle infectivity, and improving workflow for open surgery.
- Designed an enhanced testing rig using SolidWorks and 3D printing to streamline sensor sensitivity assessments on Ultravision 2, significantly reducing setup time and manual effort for engineering teams.

Harvard Undergraduate Automotive Society (HUAS)

Cambridge, MA

Contributions Include:

May 2024 - May 2025

- Co-led aerodynamics design for Harvard's inaugural FSAE team, overseeing end-to-end development of aerodynamic components, including front and rear wings, side skirts, floor, and rear diffusers, to optimize downforce and drag reduction.
- Drive material selection, cost analysis, and sponsorship acquisition to balance performance and budget constraints, enhancing the team's competitive edge in design and efficiency.
- Collaborate in the hands-on fabrication and assembly of the carbon fiber car body, applying advanced aerodynamic principles learnt in class and testing methodologies to ensure precision and structural integrity.

Aston Martin Lagonda (Mechanical Engineering Shadow)

Cardiff, UK

- Leadership and Activities -

Harvard Track and Field (HUTF)

Cambridge, MA

D1 Varsity Athlete

May 2021 - May 2025

- Dedicated upwards of 25 hours/week to rigorous training as a 400m sprinter, maintaining a strong balance between schoolwork and competing at an elite level, while traveling extensively during the spring semester.
- Contributed significantly to the team's success on-and-off the track, through leadership, communication, and dedication.
- Served as the Harvard T&F Chief Marketing Officer, working to increase spectator attendance to featured competitions through advertisements on social media and merchandise giveaways.
- Represented Harvard at the NCAA Nationals First Round, and competed at an international level for the past 5 years.

- Projects and Skills -

Projects : Spearheaded a small team in the designing, prototyping, coding, and assembly of a 3D Holographic Fan.

Collaborated with 4 classmates over 12 weeks of designing, building, and testing an RC robot.

Built a Truss Bridge from balsa wood capable of holding over 150kg.

Managed the design, calculations, and construction of a shock-absorbing suspension system.

Technology : Confident working with Python, MATLAB, Arduino, Solidworks, QGIS, ANSYS, SimScale, and COMSOL.

Languages : Fluent in English and Welsh.