

Lucas Hubert

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Summary of Qualifications

- Result-oriented recent Aerospace Engineering graduate with proficiency in technical engineering laboratory settings, leveraging skills in MATLAB, CATIA, SolidWorks, Star-CCM+, Python, and Microsoft Office.
- Demonstrated passion for aviation through consistent personal and professional engagement with aviation news and technologies.
- Demonstrated ability to complete a wide range of engineering projects, from biomedical engineering to rocket engineering, showcasing the ability to apply technical knowledge to real-world projects.
- Exceptional problem-solving and leadership abilities, recognized for consistently exceeding expectations and refining advanced technical engineering knowledge.
- Fluent in English and French (spoken and written); limited working proficiency in Spanish.

Education

Master of Science in Aerospace Engineering

May 2023

University of Southern California, Viterbi School of Engineering, Los Angeles, California, USA

- GPA: 3.51 out of 4.0
- Member of the student-led Liquid Propulsion Laboratory and AeroDesign Team
- Relevant coursework: Human Factors in Engineering, Mechanical/Aerospace Structures Design, Propulsion Engineering and Material Selection

Bachelor of Applied Sciences in Mechanical and Biomedical Engineering, *Cum Laude* **May 2021**

University of Ottawa, Faculty of Engineering, Ottawa, Ontario, Canada

- GPA: 7.7 out of 10
- Dean's Scholar in recognition of academic excellence
- Relevant coursework: Mechanical Design, Advanced Material Science, Fluid Dynamics, Advanced Thermodynamics, Control Systems, Stress/Failure Analysis

Experience

Advanced AI Data Trainer

September 2023 – Current

Open AI / Invisible Technologies, Remote Office, San Francisco, California, United States

- Conducted quality assurance assessments on new AI language models to ensure alignment with ethical standards and suitability for public use.
- Collaborated closely with cross-functional teams to identify and address potential biases and shortcomings in AI models, contributing to the creation of more inclusive and ethical AI technologies.
- Developed and implemented advanced training protocols to enhance the performance and reliability of AI language models

Liquid Propulsion Laboratory / AeroDesign Team Member **August 2021 – September 2023**

University of Southern California, Los Angeles, California, United States

- Designed and manufactured sandwich foam composite panels for competition RC aircraft
- Assisted in CAD design, modeling, material analysis, and selection of an advanced Liquid Oxygen/Kerosene rocket engine
- Coordinated implementation and manufacturing with campus partners to ensure design tolerances were met

Engineering Laboratory Assistant **May 2018 – July 2021**

University of Ottawa, Department of Mechanical Engineering, Ottawa, Ontario, Canada

- Assisted in Master's level research on microfluids and their applications to the biomechanical field
- Analyzed and characterized fluid dynamics at a micro-metric scale, including capillary forces, micropumps, and microvalves
- Developed a microfluidic device for analyzing and visualizing red blood cell aggregation in vivo

Mechanical Engineering Intern (Remote) **May – September 2020**

Mansfield & Partners Civil and Structural Engineers, Dublin, Ireland

- Gained experience in CAD software, including SolidWorks and Star-CCM+, through project analysis and development

Leadership & Involvement

Workplace Team Captain **September 2020**

University of Ottawa Sports Services, Ontario, Canada

- Led new fitness attendants over the course of training week
- Fostered a positive atmosphere between the new members of the team and ensured that they were properly integrated into the group

Varsity/Senior Rowing Teams **September 2016 – December 2019**

University of Ottawa; Ottawa Rowing Club, Ontario, Canada

- Committed 15 hours per week to training in addition to weekend regattas, while having maintained a full-time course load, achieving academic success and managing work responsibilities
- 2017 and 2018 Row Ontario Championships U23 gold medalist (2-; 4-)