

# OJASVI KAMBOJ

## SUMMARY OF QUALIFICATIONS

- Passionate about improving the aerodynamic efficiency of flying vehicles
- Hands on manufacturing experience and strong communication and presentation skills through internship at Kyocera International and Design Build Fly club
- Independent and collaborative working skills through The Engineering Notebook project and internship at Kyocera International
- Technologies: MATLAB, Simulink, LaTeX, Google Suite, Office, SolidWorks (Certified SolidWorks Associate Mechanical Design — 2021), Java (MTA: Introduction to Programming Using Java — 2018), Unity, C#

## EDUCATION

**University of Washington, Seattle, WA** **June 2023**

- *Bachelor of Science in Aeronautical & Astronautical Engineering, Triple Minor in Classical Studies, Mathematics, and Applied Mathematics*
- Developed the UI and backend in Unity and C# for the UW Astrohuskies NASA SUITS Challenge team

**Skyview High School, Vancouver, WA** **2015 - 2019**

- 4.0 GPA | Rank: 1/460
- Produced an Android app, The Fin-damentals of Fish Care which won the Congressional Apps Challenge for Washington's Third Congressional District — 2018

## RELEVANT EXPERIENCE

**Nose, Tail, and Empennage Project Lead at Design Build Fly, Seattle, WA** **2019 - 2023**

- Lead a team of 2 people to design the 2022 competition plane's landing gear by researching and selecting the optimum configuration based on the AIAA's issued competition design constraints
- Performed finite element analysis via SolidWorks to optimize the mass to strength ratio of the landing gear nose mount, reducing weight by 1.04% despite tight tolerances
- Communicated the landing gear design process in the final 60 page design report
- Operated hot wire cutters to produce the wing of an RC aircraft

**Aeronautical Engineering Intern at SDI Engineering Inc., Seattle, WA** **March 2022 - July 2022**

- Optimized the backend MATLAB code of GearSim software and maintained documentation of changes
- Redesigned the interface of the GearSim start menu to be more descriptive and user friendly
- Developed features such as easily accessing and loading previous projects and the ability to delete old projects from within the software
- Restructured the user interface of the GearSim main menu to decrease the number of pop up menus and create a more fluid user experience

**Intern at Kyocera International, Inc., Vancouver, WA** **June 2018 - July 2018**

- Analyzed production methods and factory procedures and presented a final report of findings and suggestions to minimize the number of scrapped and recalled parts to 26 department heads
- Performed a Gage R&R in order to generate tolerance levels for non-conforming parts
- Used SolidWorks to prototype a new part and run stress analysis simulations
- Worked with inspection tools such as Coordinate Measuring Machines and Fluorescent Penetrant on industrial ceramic parts

## ADDITIONAL EXPERIENCE

**The Engineering Notebook, Vancouver, WA** **August 2020 - Present**

- Developed a website to share engineering projects, course summaries, and other helpful resources with other engineering students