

KYLE BROWN

Los Angeles, CA | (916) 768-6354 | kylebrown978@yahoo.com | kbrownaero.com

Aspiring Engineer with an educational background in aerospace engineering. Recognized for natural ability to collaborate with peers and co-workers to achieve common goals. Work history that showcases flexibility, adaptability, ability to exceed expectations in fast-paced environments.

EDUCATION

University of California, Los Angeles UCLA	2024
• GPA: 3.0, Aerospace Engineering, B.S.	
Cañada College	2019-2022

- GPA: 3.98, Aerospace Engineering

ENGINEERING SKILLS

Computer: Experienced using C++, Solidworks, MATLAB, and Microsoft Office
Coursework: Statics, Dynamics, Calculus, Propulsion, Fluid Mechanics, Differential Equations, Thermodynamics

Projects

Autonomous Drone UCLA	2024
• Collaborated in a team to design and build an autonomous drone, emphasizing control systems and sensor integration. • Integrated the Adafruit MPU 9250 IMU for precision orientation tracking and the LiVox MID-360 LiDAR for navigation and obstacle detection. • Implemented communication between sensors, Jetson Orin flight computer, and control systems, optimizing autonomous pathfinding and stability. • Conducted simulations and testing to ensure accurate flight control and obstacle avoidance.	

Spacecraft Design UCLA	2024
• Managed instrumentation for a comment sample return mission, integrating payloads like NIRS3 Spectrometer, TIR Camera, LiDAR and SUDA. • Led the development of the sample collection system using the Hayabusa Sampler Horn and xLink robotic arm for transfer to the OSIRIS-REx SRC. • Contributed to system engineering propulsion, power, and trajectory analysis, utilizing the NEXT 9a ion thruster and ROSA solar array to meet mission goals.	

WORK EXPERIENCE

Aerospace Systems Engineering Intern	2022-2024
Independent Engineering Project - Los Angeles, CA	
• Supported system-level aerospace design activities including requirements definition, trade studies, and subsystem integration • Performed analytical, studies using Matlab and Solidworks to evaluate system performance, design margins, and interface layouts • Contributed to technical documentation and basic verification planning using standard aerospace system engineering practices	

Engineering Intern	2021
Cañada College, Redwood City, CA	

- Met with Engineering Companies including NASA and ESAero
- Learned about industry standards and hardware engineering practices related to component technology