<https://www.instagram.com/reel/DK5LTeYJ0iM/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA==>

Stuff I did for rocketry: My experience as a Structures Engineer with the USYD Rocketry Team has strengthened my capabilities in structural design, analysis, and manufacturing. The structures team is responsible for the design and integration of load-bearing components within the rocket, ensuring safety, reliability, and performance under extreme launch conditions. I recently contributed by designing and manufacturing 3D-printed pneumatic mounting structures, as well as supporting structural integration for propulsion testing. This involved using CAD (SolidWorks) for component design, applying Finite Element Analysis (ANSYS) to evaluate stresses under pressure loads, and validating performance through physical testing at pressures up to 60 bar. Through this work, I developed hands-on experience with design for manufacturability, additive manufacturing, and structural testing methods essential in aerospace engineering.