Drone

Gavin Reed

- Drone that connects to a mobile app, allowing users go control it through smartphones

<u>Why?</u>

- Strong personal interest in aerospace
- Challenging
- Fun



Exploded View

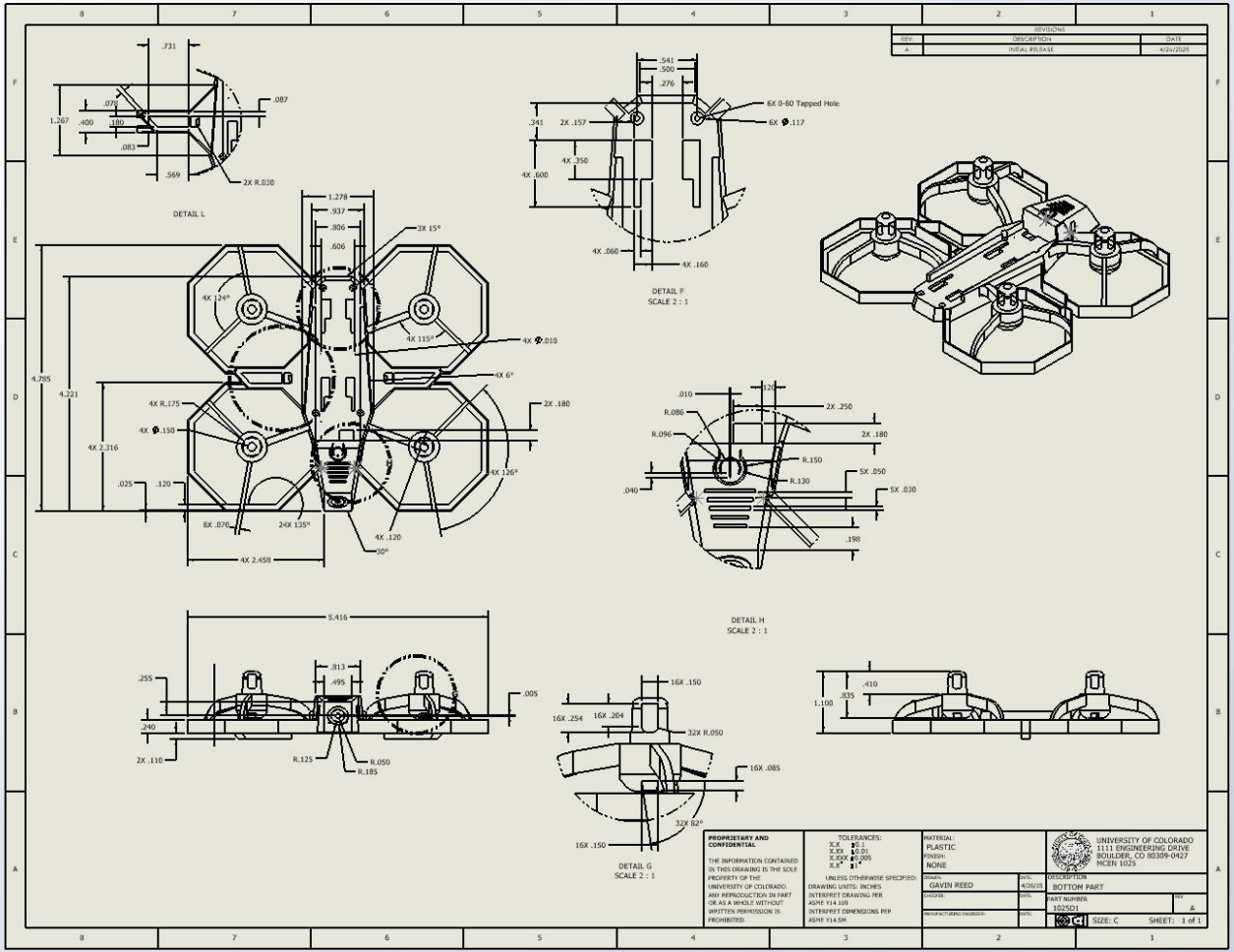
Most Important Components

- Top Part
- Bottom Part
- Wings
- Propellers





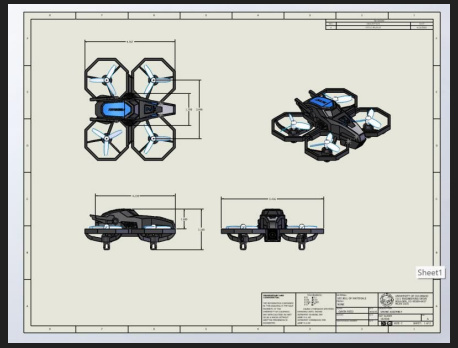


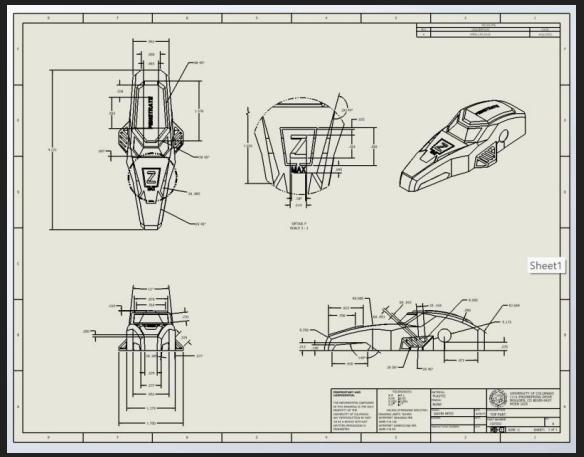


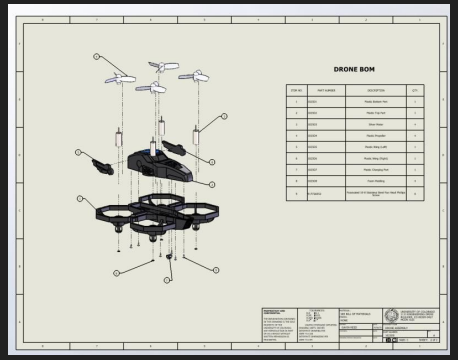
Most Difficult Drawing: Bottom Part

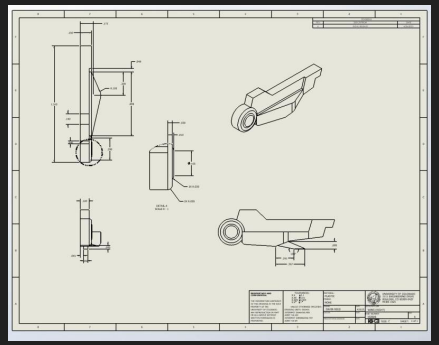
- Tiny details
- Complex geometry

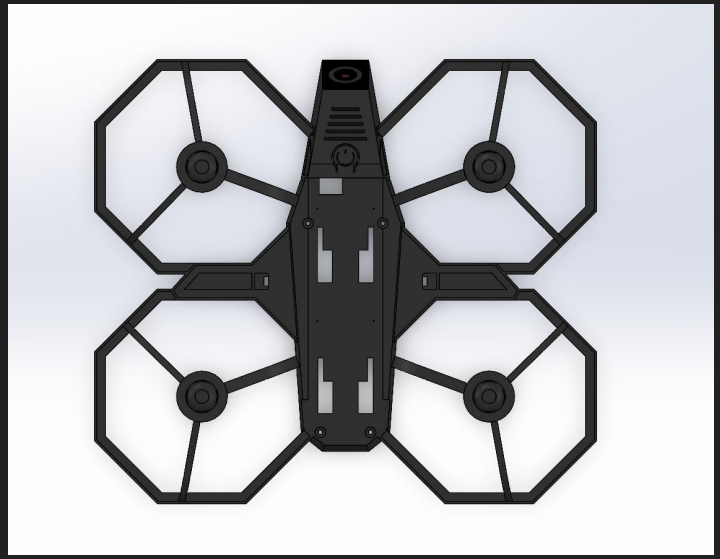
Other Drawings

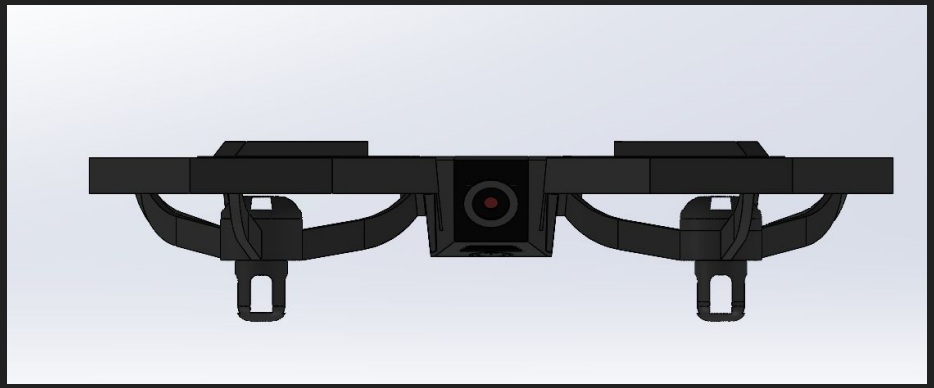












Most Difficult Part: Bottom Part

- Focused on main structure first before tiny details
- Used mirrors to quickly finish complex drawings and extrudes

Lessons Learned

- 3D sketches
- Designing with logos or features
- Careful measurements with calipers and setup were essential to ensure that all parts aligned correctly, especially with such fine details

Differences

- Screw Type
- Logo
- Very Small Angles, chamfers, and fillets

Real Product vs Model







