



## Mini-Course â?? Structural Engineering for UAV Design

### Description

The **Mini-Course â?? Structural Engineering for UAV Design** is a concise, self-paced training module designed to equip drone developers with structural engineering essentials.

#### Course Modules:

1. **Load Paths & Force Distribution** in UAV frames
2. **FEA Basics** for drone-specific applications
3. **Material Selection & Trade-offs** (CFRP, Nylon, PLA)
4. **Mounting Systems & Joint Integrity**
5. **Shock/Vibration Considerations** for avionics protection
6. **Thermal Stress & Structural Fatigue**
7. **Lightweighting & Structural Efficiency**

#### Format:

- Pre-recorded lessons (MP4)

- Printable summary notes (PDF)
- Structural design checklist
- Total runtime: ~45 minutes
- Access: Instant download, lifetime license

§ Ideal for:

- UAV engineers and CAD designers
- Students and early-career aerospace professionals
- Technical founders building drone prototypes

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