INTRODUCTION

> Drones are Everywhere

Heavy lift drones have a variety of applications:







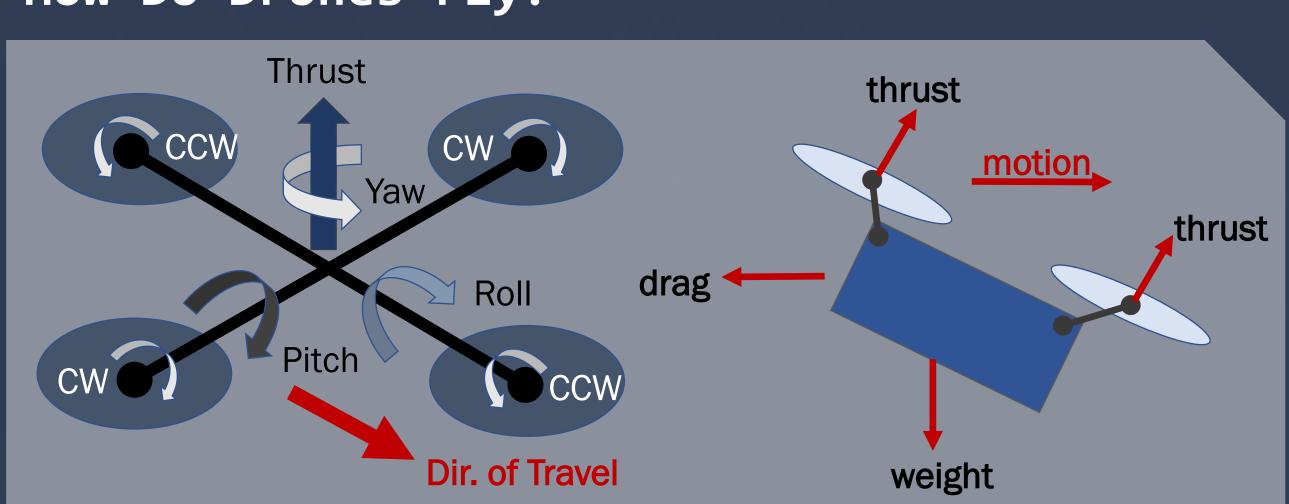


> What's Wrong with Existing Drones?

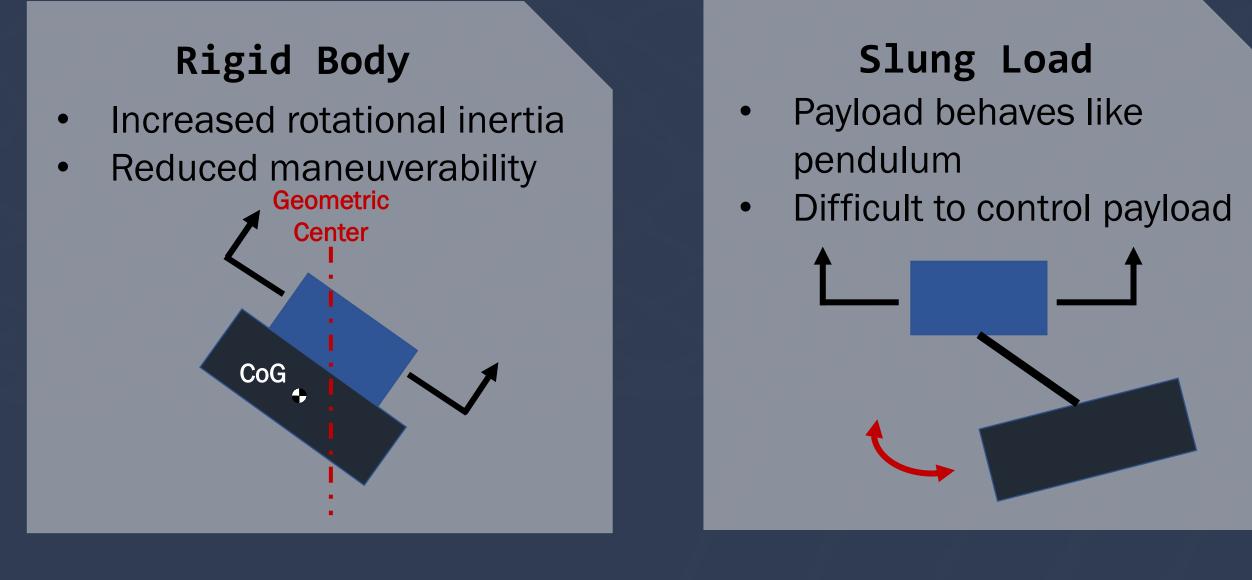
- 1. Battery powered drones have limited payload capacity
- 2. <u>Transport/repair difficulties</u> due to custom structural components
- 3. <u>Attachment mechanisms</u> are not optimized for heavy payloads

While drones with small payloads are relatively easy to maneuver, large payloads create issues

> How Do Drones Fly?



> Payload Connection Issues



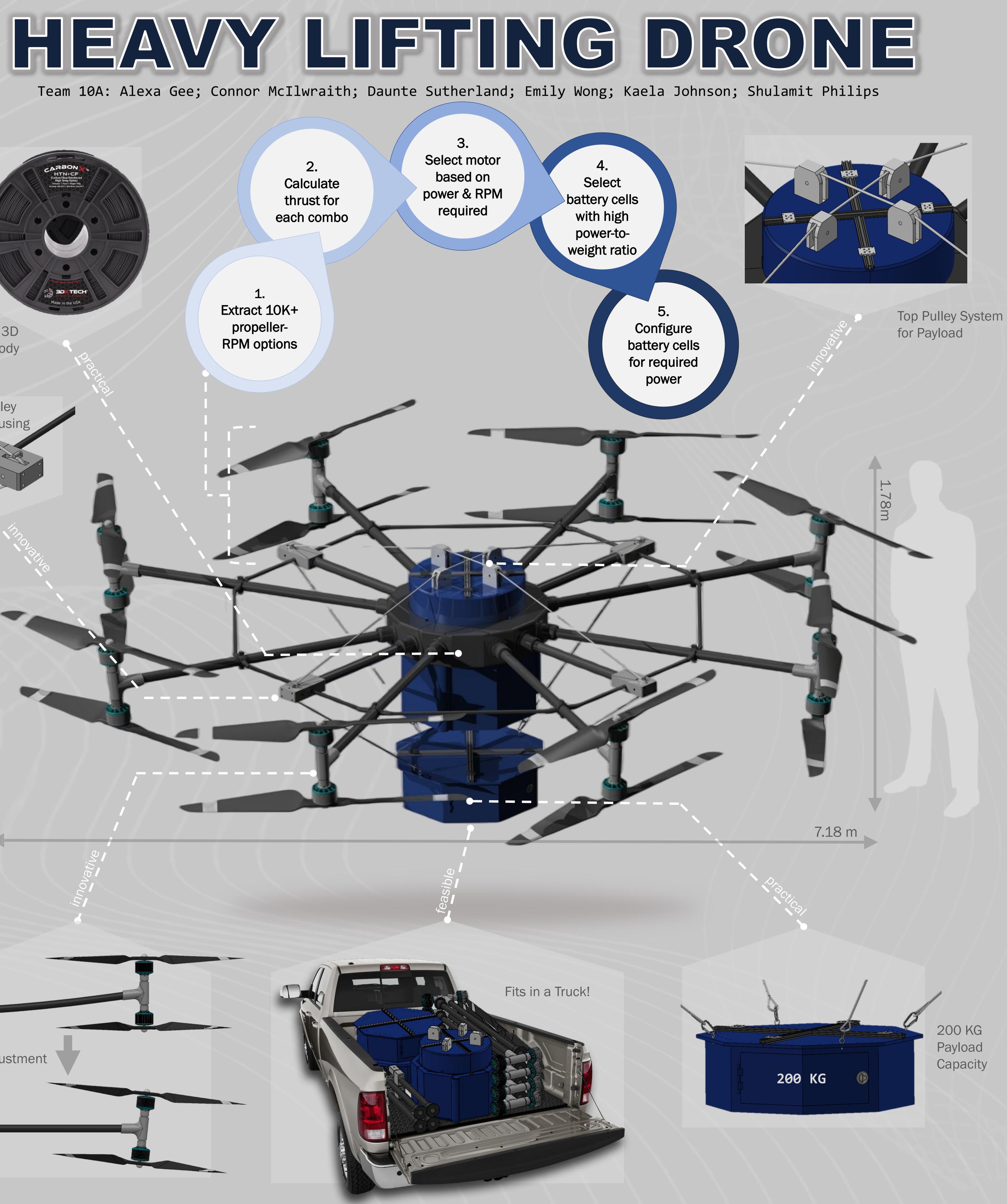
MISSION

Capacity

Design a drone capable of flying with a payload of 200 kg for over 30 minutes. The drone should be electrically powered and controlled remotely using a joystick.

Assembly

OPERATIONAL PROFILE 711 Д E 200 KG 30 min Load 4-Person Battery Life







3D Printed Components



Arm Adjustment