Team FanFlyer

Semester One CAD package and BOM



**Parts**

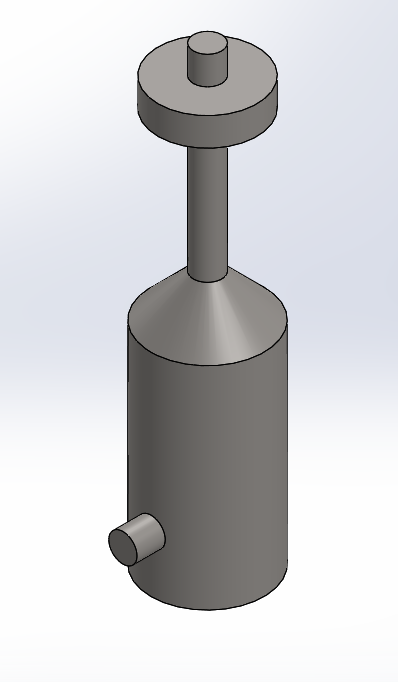


Figure 1: Engine & Crank Shaft (1)

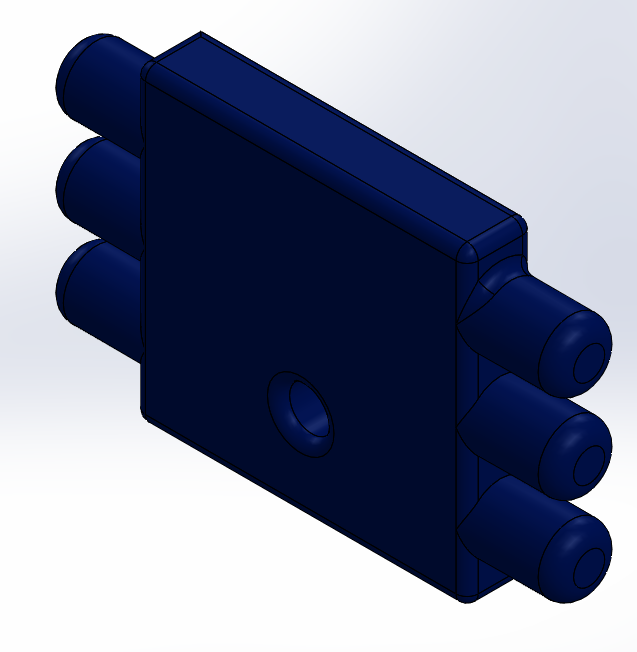


Figure 2: Engine Front (1)

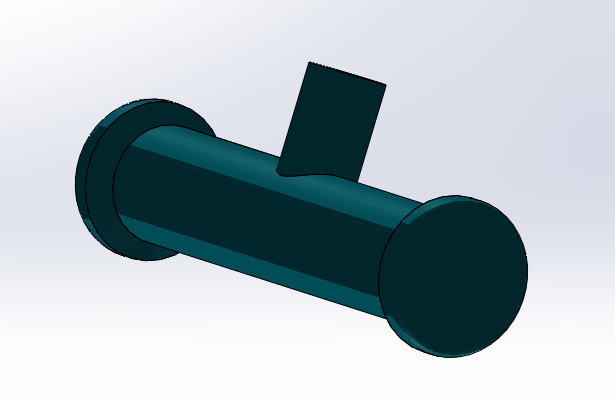


Figure 3: Engine Bottom (1)

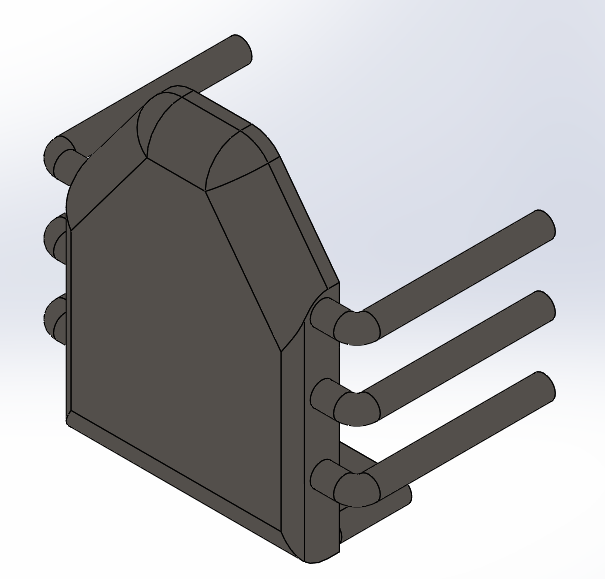


Figure 4: Engine Exhaust System (1)

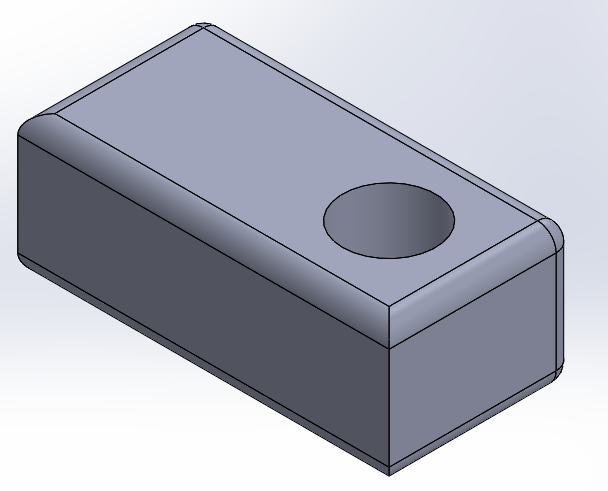


Figure 5: Reversing Gearbox (1)

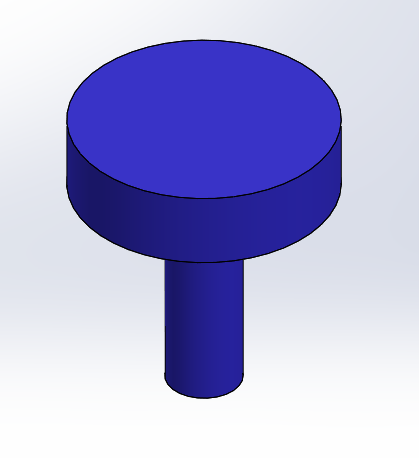


Figure 6: Top Belt Drive (1)

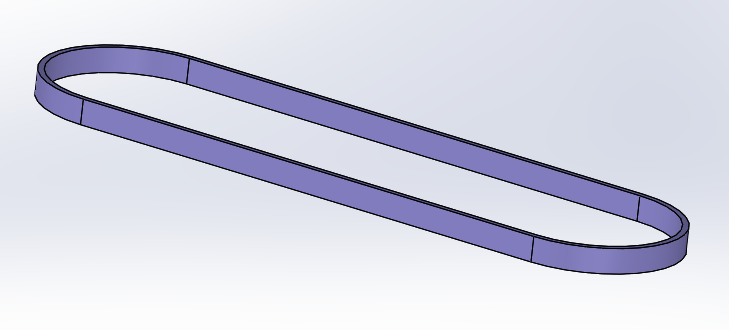


Figure 7: Lower & Upper Belts (2 sets of 2)

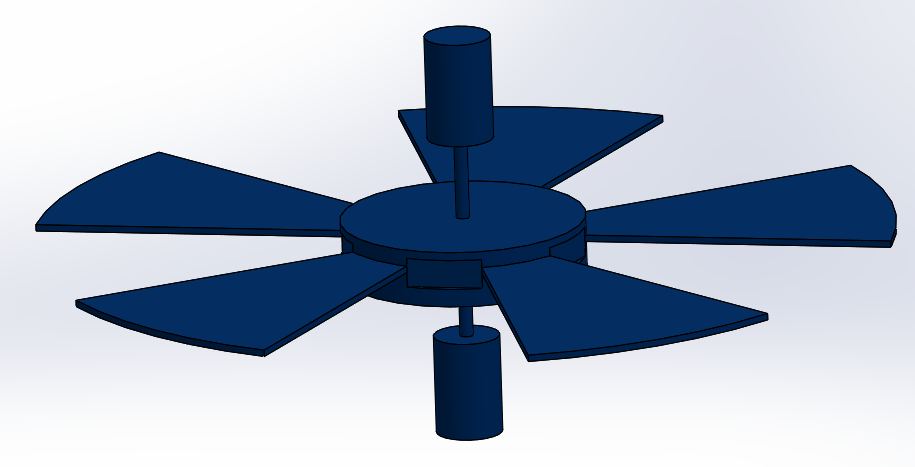


Figure 8: Rotors (4)

**Assemblies**

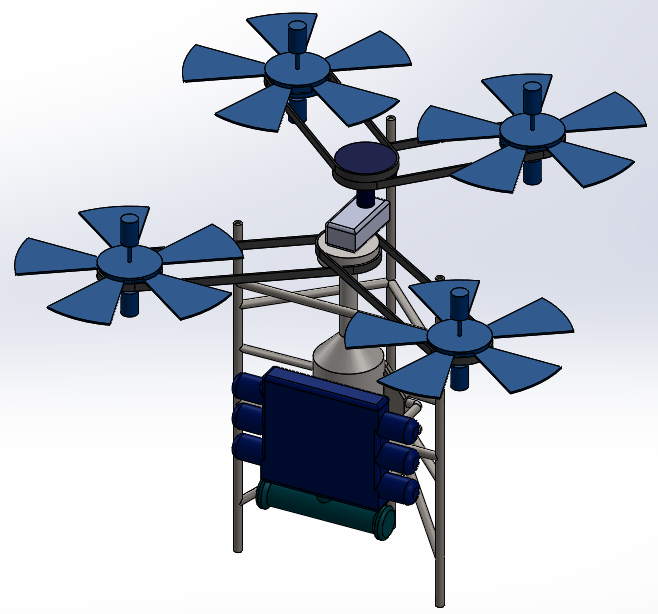


Figure 9: Jim’s Assembly

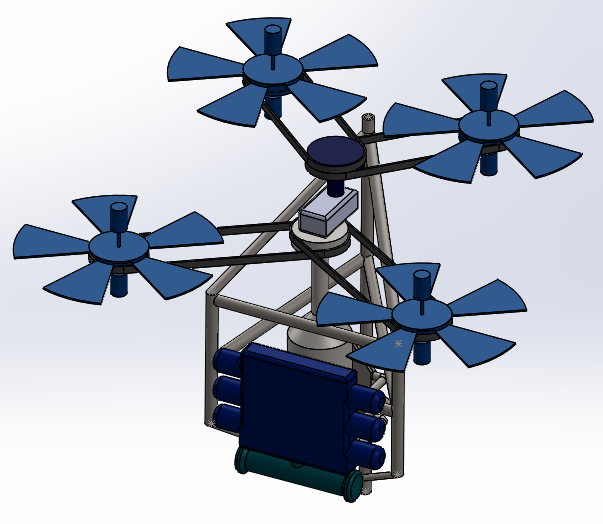


Figure 10: FanFlyer’s Assembly

**Drawings**

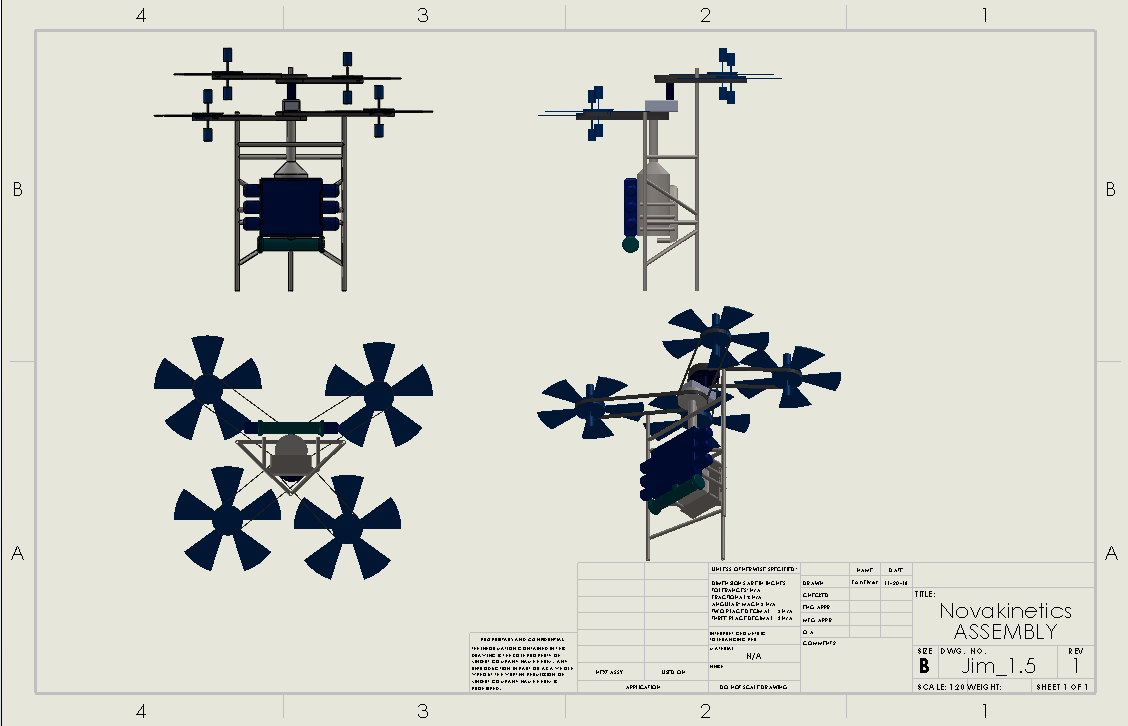


Figure 11: Nova-Kinetics

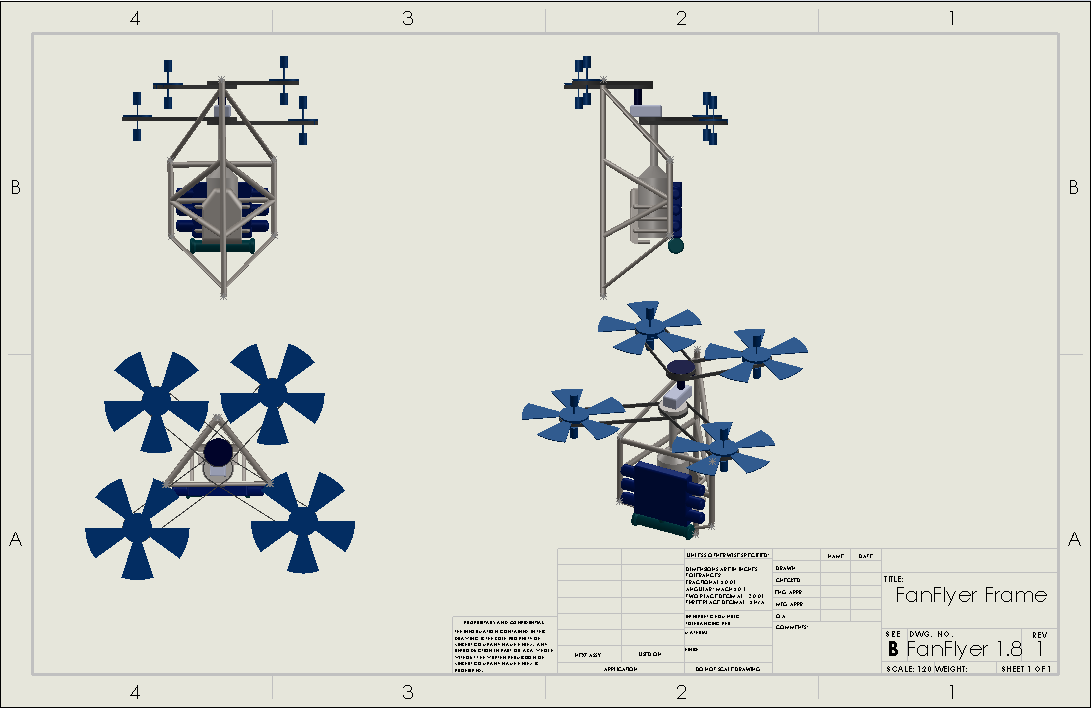


Figure 12: FanFlyer

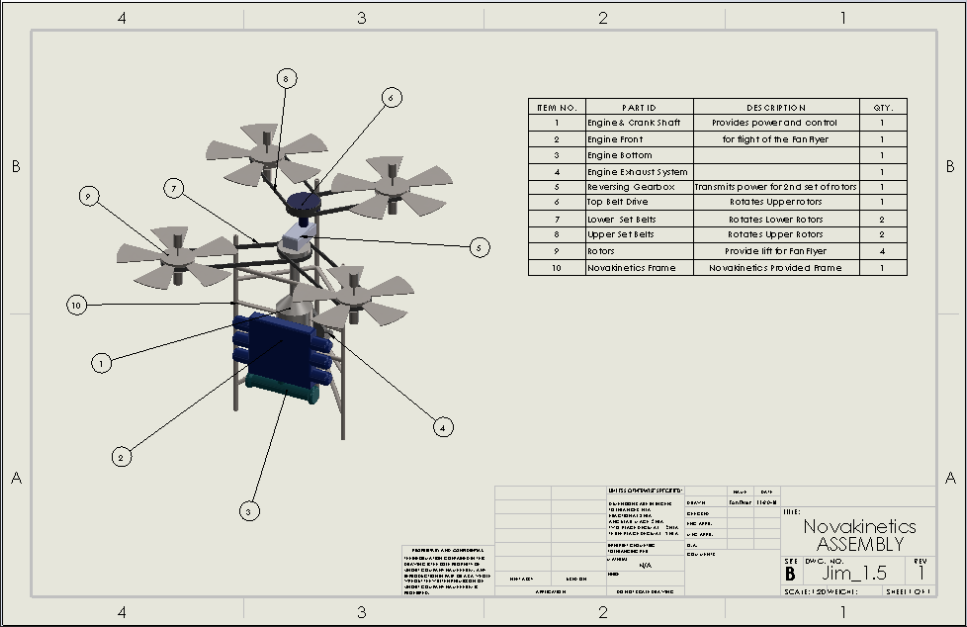
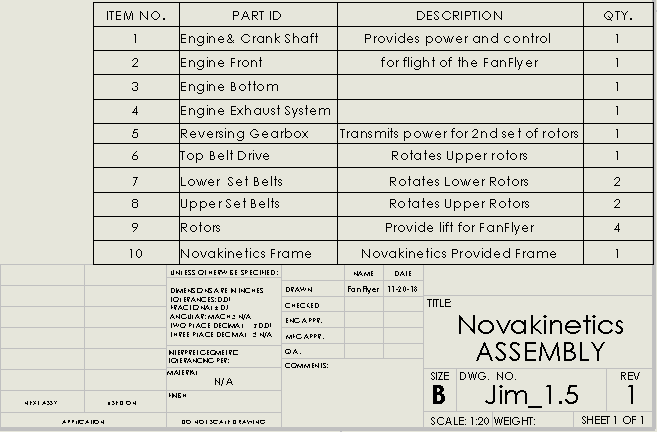


Figure 13: Nova-kinetics BOM with Nova’s frame

Table 1: BOM zoom in for Figure 13



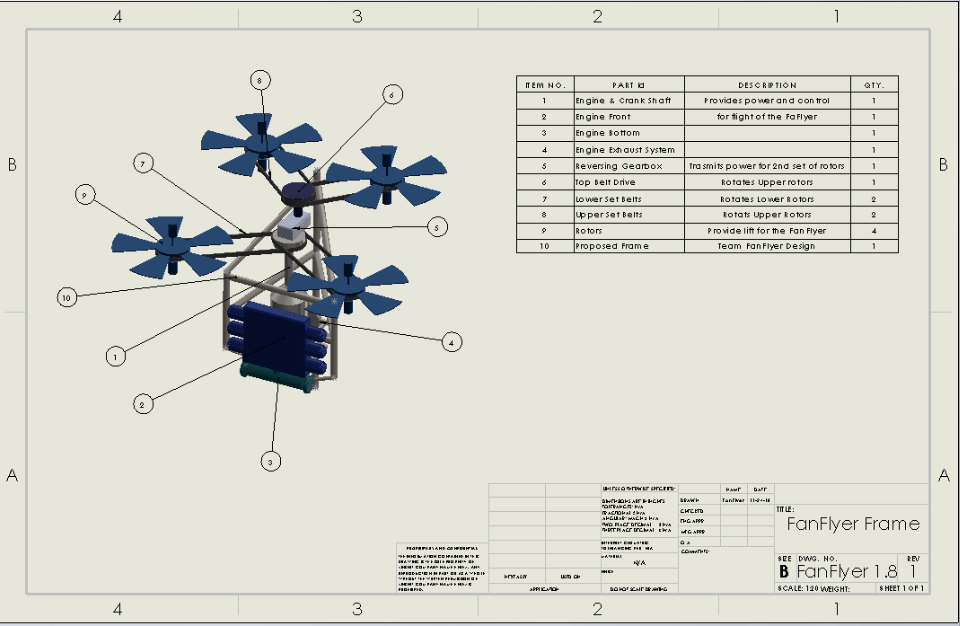
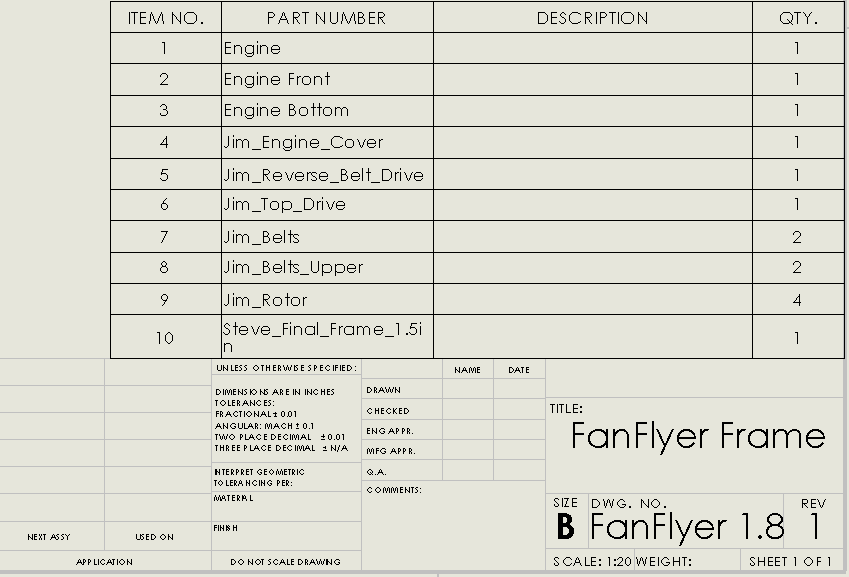


Figure 14: Team FanFlyer’s BOM with Fan Flyer’s frame

Table 2: BOM zoom in for Figure 14



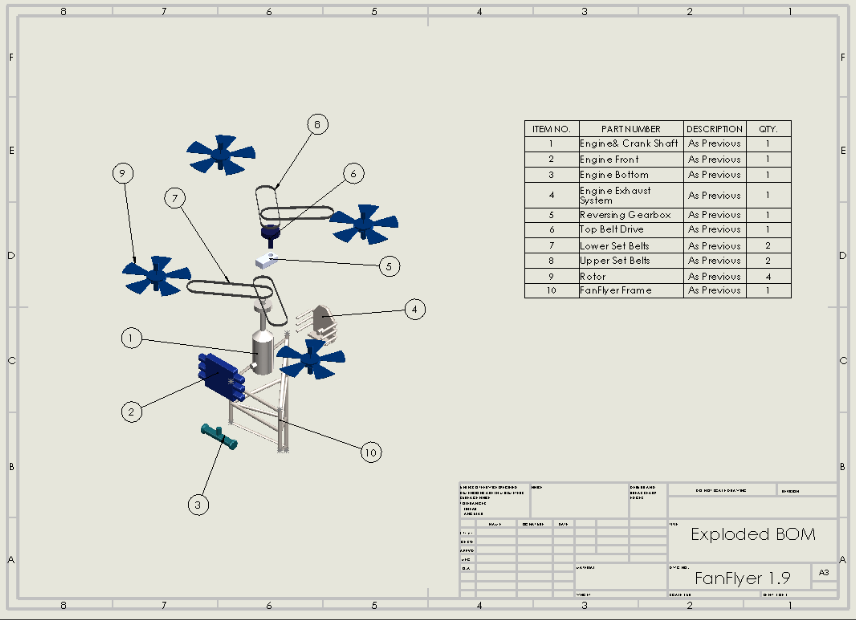


Figure 15: Exploded view of Team FanFlyer Sub System BOM

Table 3: BOM zoom in for Figure 15

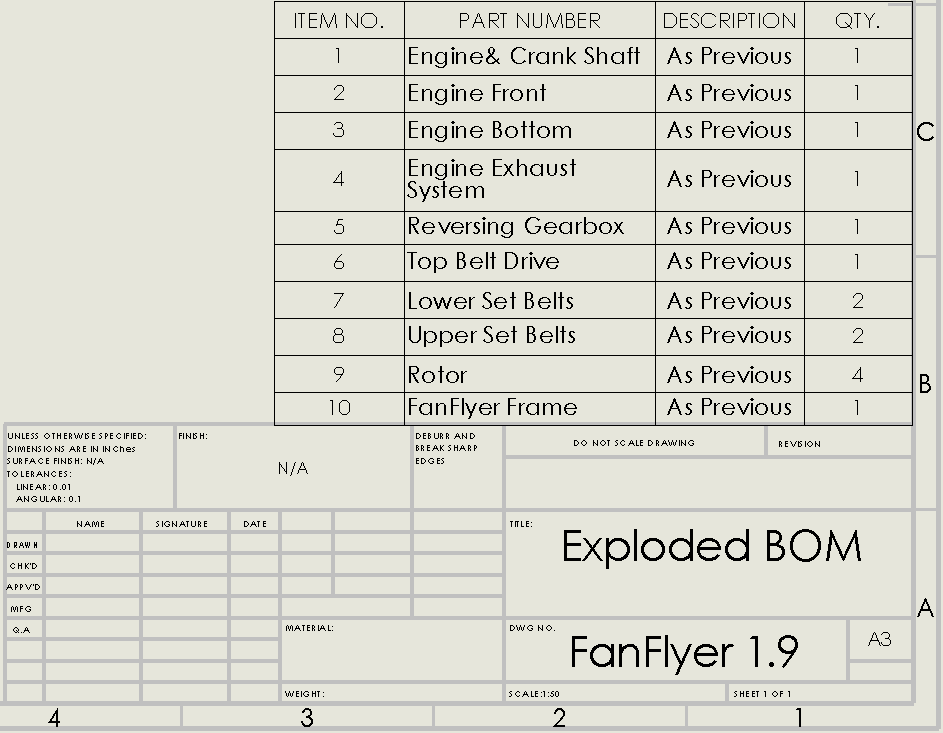


Table 4 – Realistic BOM for 4130 Steel



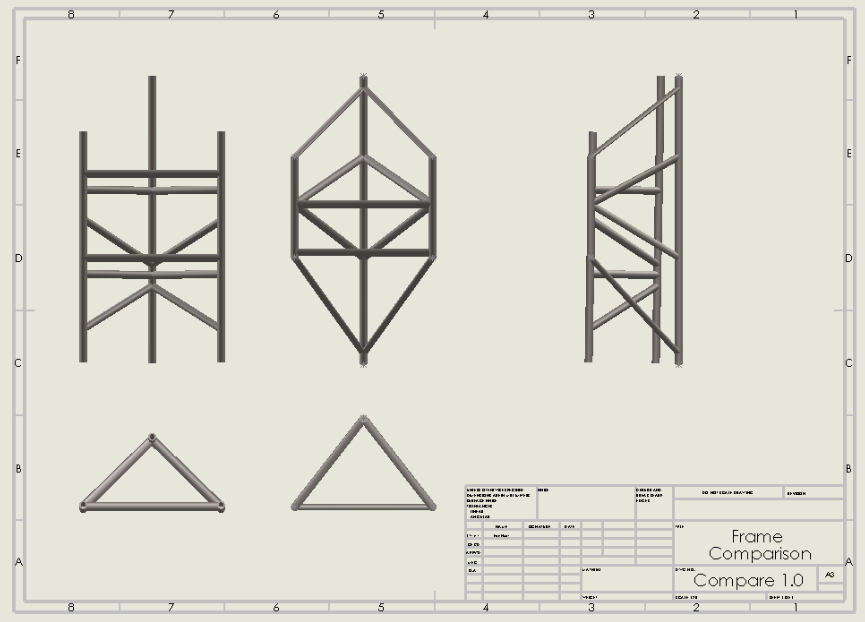


Figure 16: Novakinetics & Team FanFlyer frame comparison

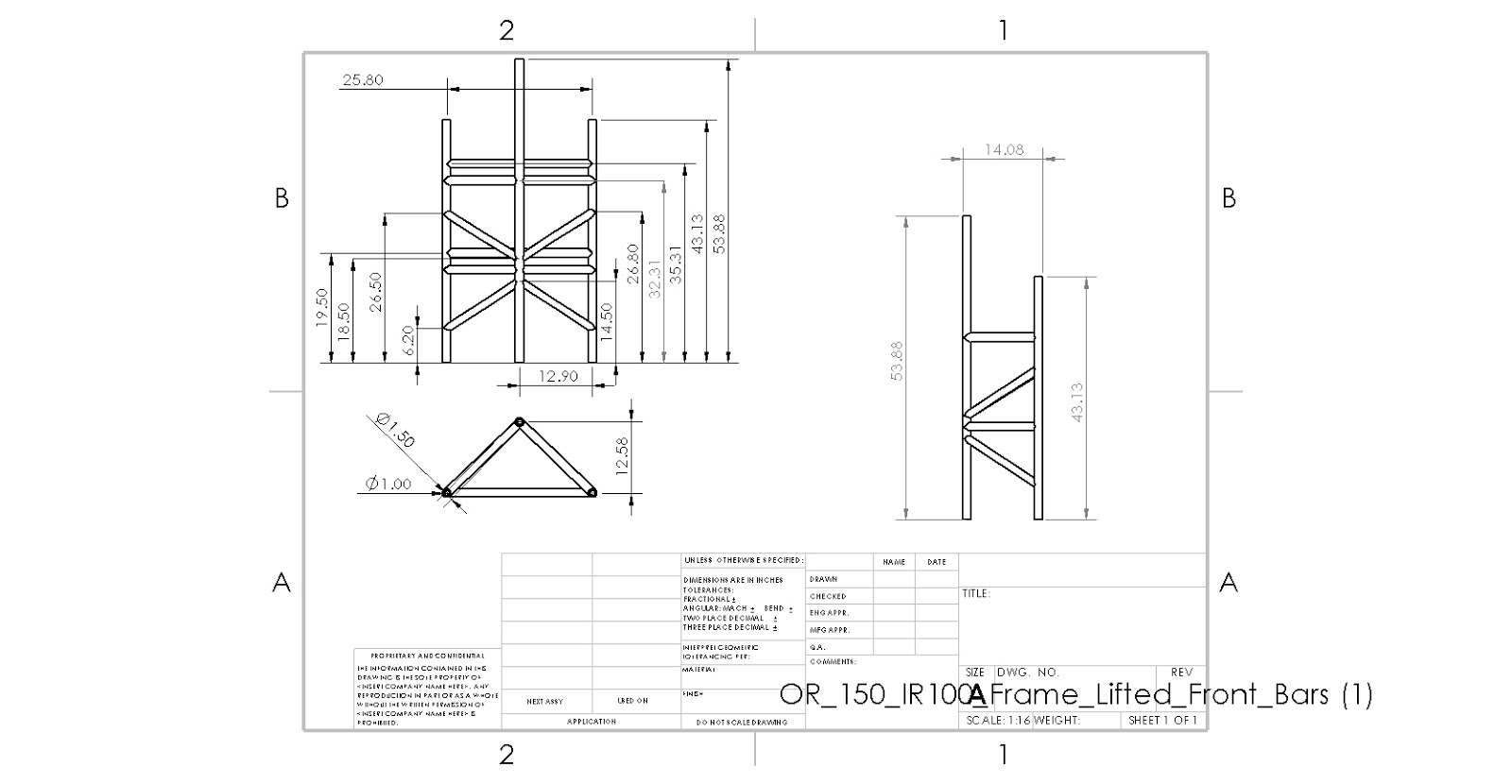


Figure 17: Novakinetics Frame dimensions

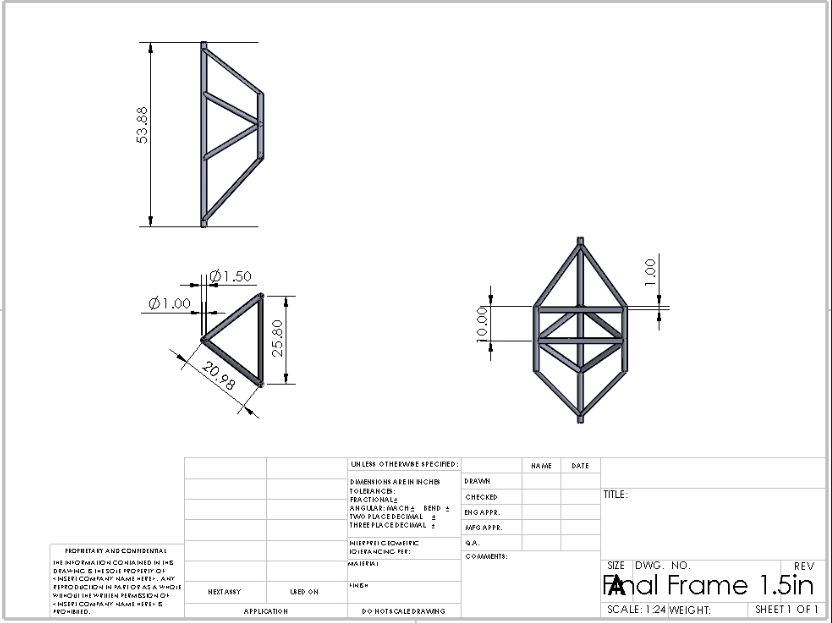


Figure 18: Team FanFlyer’s frame dimensions

**Nova-Kinetics Provided**

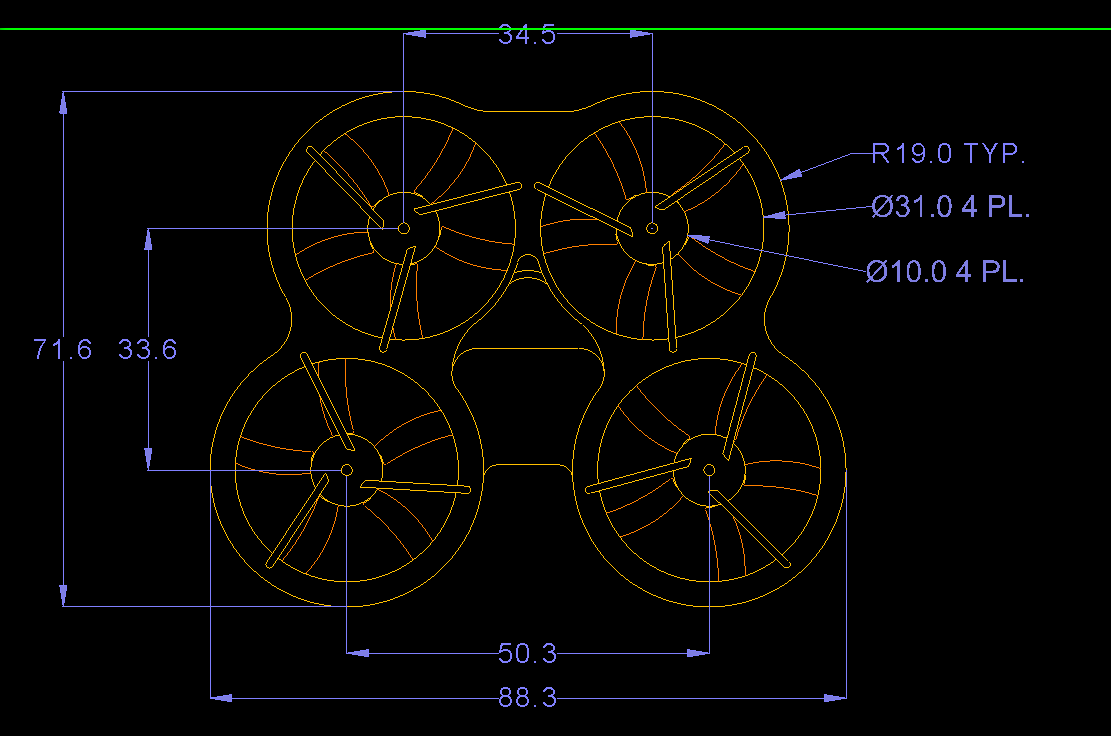


Figure 19: Top view of Nova-Kinetics CAD dimensions

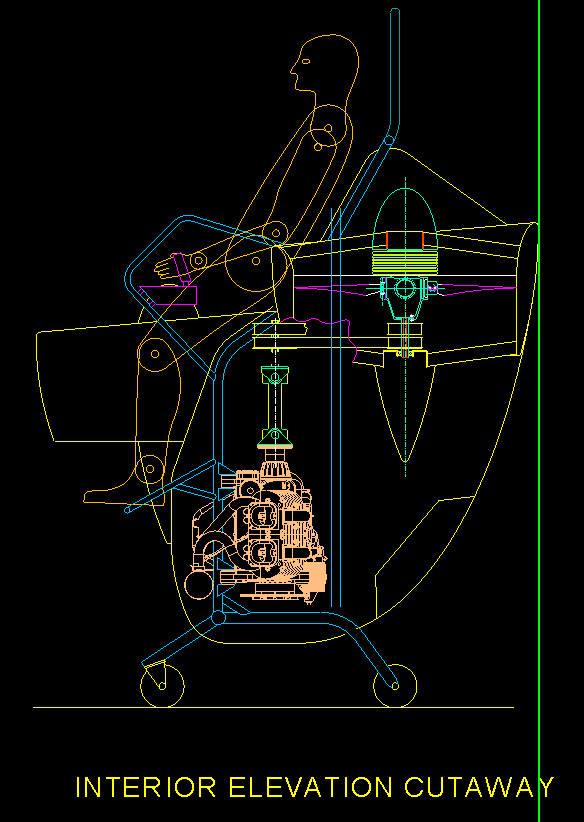


Figure 20: Side view interior of Nova-Kinects FanFlyer with pilot

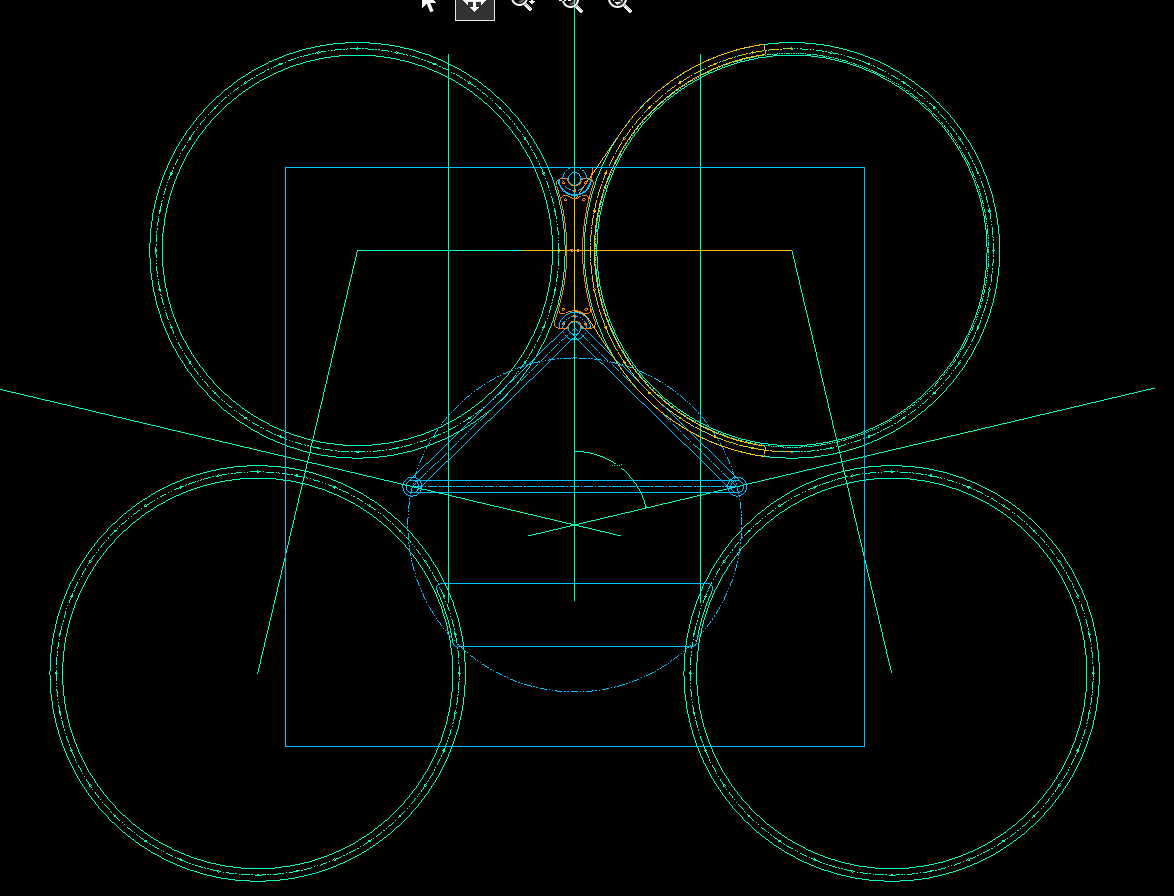


Figure 21: Top view radial position of Nova-Kinects FanFlyer

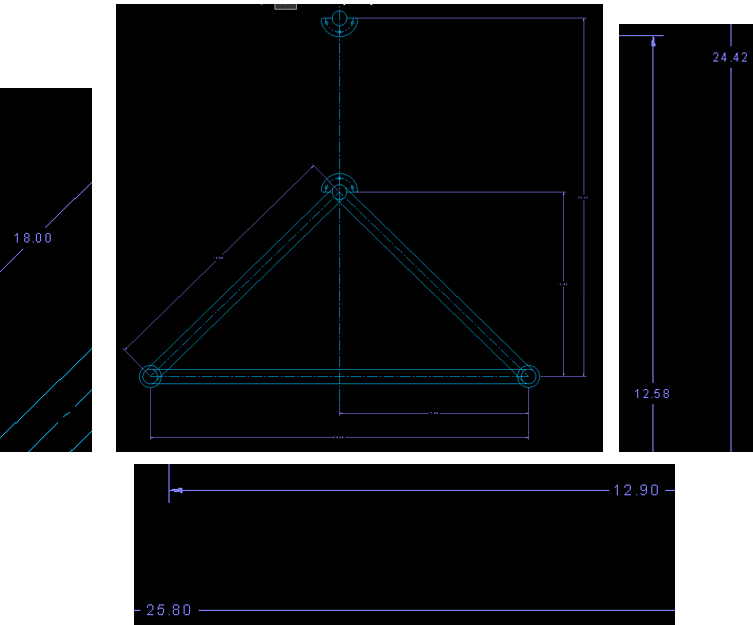


Figure 22: Top view of Nova-Kinetics Frame dimensions

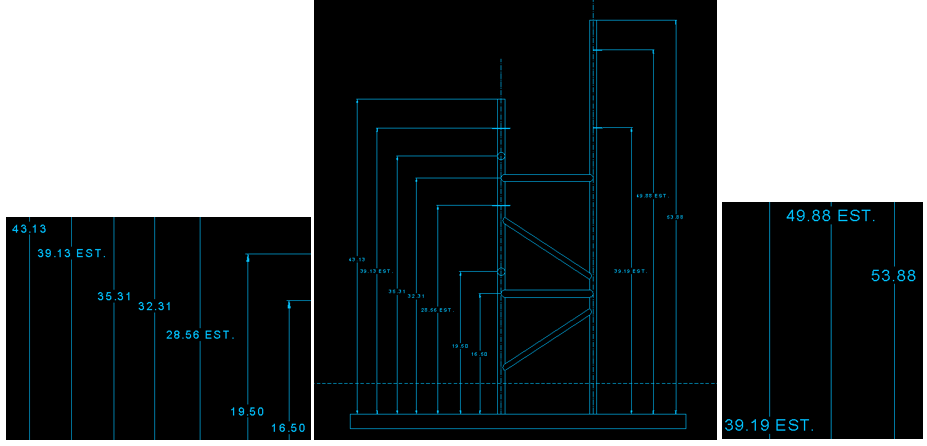


Figure 23: Side view of Nova-Kinects Frame dimensions