

INVESTIGATE OPTIONS FOR MFG. A NEXT GENERATION MICRO-QUADCOPTER DRONE

APPROACH

- Collaborate with client on-site to understand key design considerations and performance goals
- Consider target manufacturing alongside design elements (mechanical and electrical)
- Assessed cost benefits with quotes to maintain COGS estimates

RESULTS

- Recommended in-house conversion options from hand-built to injection molded techniques using a contract manufacturer
- Achieved mass-neutral design recommendations
- Developed baseline DMFA product against prototype processes

KEY TOOLS & TECHNOLOGIES

- Design for manufacturing and assembly (DMFA) assessment
- Rigid flex electrical architecture
- Structural finite element analysis
- COTS vs custom motors and mechanisms
- Battery pack chemistry and assembly

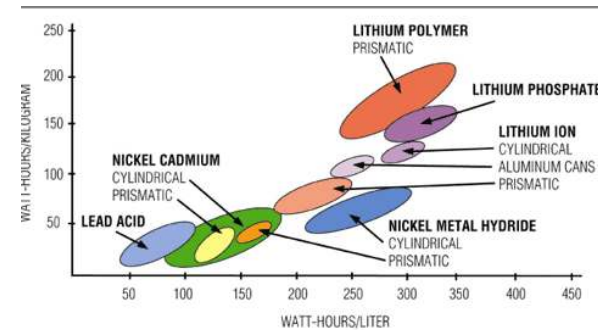
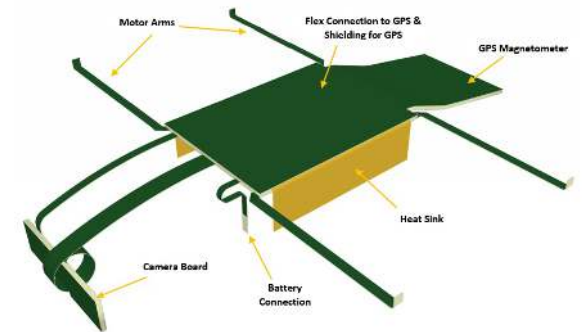


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