CASE STUDY

Ground-up Redesign for Next Generation Drone

Ph1 Ph2 Ph3 Ph4 Ph5

OVERVIEW

ALTEN is developing the next generation drone vehicle architecture to refine and sustain the current product offering.

ALTEN will support our customer to accelerate development, de-risk key subsystems, and support regulatory and export readiness

Sector	Defense
Customer	OEM Defense Systems
Department	EE | SW | ME | PM | SE | QE
Product	System
Task	Product Development

PROJECT DETAILS

Project Approach

- Requirements development and management
- Redesign for chassis, legs, arms, deployment interfaces, radio interface, payload interfaces, sensor packaging, battery charging system
- Custom PCBA radio interface boards (schematic, layout, routing)
- Flight Controller, MCU
- Verification method planning
- CE marking certification

Drone Development Activities

- Arms & Chassis
- Swappable Radio Bay
- Redesign Architecture (DFM & cost reduction)
- Battery Enclosure & BMS Integration
- Canopy Design
- CE Certification Support & Export Support

FTE **15**

DURATION **11M**

LOCATION **Denver, CO**

TOOLS Altium | Zephyr | SolidWorks | UAVCAN | DroneCAN | Cameo

Sensitivity: C1-Internal