

MECHANICAL ENGINEERING

Aviation

ALTEN ADDED VALUE

Agile approach
Expert domain knowledge
High-seniority engineers
Fast team ramp-up
Remote team working on a common goal
Extending the client's project capabilities

KEY DATA

Team Size: 20 Consultants
Time: Long-term POP
Services Contract

KEY TOOLS & TECHNOLOGIES

NX 19, Teamcenter
Polyworks, Siesta, VisMockup
Ansys Classic, HyperMesh, HyperView,
Workbench
MRB process
LCF and HCF, crack propagation

ADVANCED TURBOPROP ENGINE

OVERVIEW

ALTEN built a specialized team of mechanical design and analysis engineers to assist in designing our client's highly sophisticated turboprop engine.

PROJECT DETAILS

1 x Team leader
14 x Mechanical design engineers
5 x Strength analysis engineers
1 Project manager

- Participate in the engine certification process
- Conduct FEM analysis
- Design parts using additive manufacturing knowledge
- Create mechanical documentation
- Develop combustion engine parts
- Close cooperation of mechanical and analysis engineers
- MRB process evaluation

