

Why monitor the development of a viewfinder land?

Objective

The performance of a viewfinder on Earth depends on its level of stabilization. But this is not everything!

The electronic box attached to it manages exchanges with its external environment and the data between different devices.

For this, the sight of land consisting optronics, electronics and software must be developed in accordance with international standards as well as the repository of the company adapted to the constraints of the defense sector.

Our Approach

Assist the project manager from the tender to delivery of finished product in respect of the implementation of development processes

Optimizing the tasks of quality control by capitalizing the reports and documents in order to reduce the timely development, technical meetings and reviews

Being the interface between the various partners in client meetings and during development



Viseur panoramique stabilisé

Quality Assurance of air-ground weapons and infrared seeker system

Objective

Background: The unit had to develop and internal kit guiding a weapon system air-ground modular and develops in a co-prime contractor between two manufacturers of Defense seeker infrared to a surface to air missile.

Our objectives:

Guidance kit. Crossing successfully milestones (models, magazines end phase, Aptitude journals shots), impacting the program's benchmarks of fire tests of manufacturers.

IR seeker: Establish the quality organization in preliminary design phase, conduct design reviews and preliminary definition, taking out the contract documents for client review.

Our Approach

- Participation in the preparation of program plans (management, development, quality, configuration management, ...)
- Preparation and participation in reviews of late phases of the customer's quality system (launch, preliminary design, detailed design, validation, qualification and assessment of project)
- Validation of project documents (drawings, specifications, design documents, procedures and reporting trials) and contract documents
- Quality monitoring the progress of various internal working groups (sites or projects)
- Quality monitoring of suppliers of subsystems (tender, magazine launch acceptance ,..).



Results

- Guidance kit: On-time delivery of material models, prototypes and pre-series "
- IR seeker: Establishment of a risk management program. Timely delivery of plans and documents in the file definition and file proof of the definition.

Electrical system design

Dealt with a power supply box designed to supply a system of radio transmission.

Objectives

The power supply box allows :

- supply the host system in an autonomous way,
- communicate the remaining autonomy.

Our approach

- 1) Choice and design of the main elements of the power supply box (Smart battery, electronic components, connectors),
- 2) Design, test, schematic seizure, realization, validation and industrialization of the electronic card,
- 3) Development of the software associated with the μ C selected,
- 4) Write-up of all associated documentation.

Results

The autonomous power supply box was realised in time.

It supplies the host system in an autonomous way and communicates the remaining autonomy via a RS232 serial line.

The battery can be recharged by connecting the battery charger to the box connector.

Clients benefits

Only one technical interlocutor throughout the life of the project..

Logistics support analyse of a spaceship sight

Goals

Answer to the SLI requirements
Explain logistics Data



Our way

Analyses of :

- reliability and AMDEC
- Security
- Testability
- Maintainability (Plan and maintenance task, LORA),
- New analyse failure diagrams and stochastic computations associated

Logistics support data synthesis through the norm 1388.
Logistics data explanation (Access)

Results

SLI goals have been reached
The review has been successful.

Customer benefits

Easy to use Logistics filing system

Mechanical design of a weapon subset

Objectives

Mechanical design of a subset allowed to guide a missile.



Our Way

- . Seek technical solutions with respect to the specifications ;
- . Argumentations detailed of the technical choices ;
- . Constitution of the files of definition implemented on the data management system ;
- . Management of the team designers.

Results

Finalization of the files of definition in 11 months under SAP for the production of the prototypes ;

Returns of qualification taken into account.

Clients benefits

Technical training specialized in aeronautics of Defense ;
Capacity to manage a team of designers.