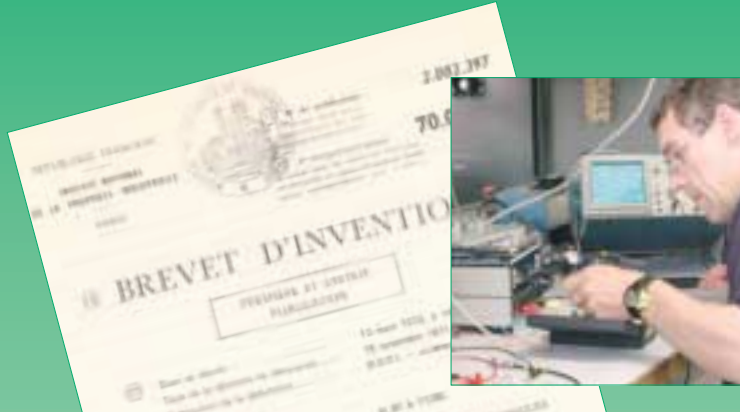


OUR MEANS FOR STUDIES AND DEVELOPMENT

SEFTIM since its creation in 1969, acquired an expertise in the search for original solutions and their implementations to the best times and costs.

We have modern means for studies and development, of which :

- electronic laboratory,
- workshop,
- Faraday cage, climatic chambers,
- electric, electronic, telecommunication measuring equipments,
- computers for simulation and CAD.



SEFTIM IS CERTIFIED ISO

SEFTIM has experience in fields as varied as the military applications (DGA...), telecommunication stations (France Telecom...), radars (Thales, STNA, ONERA...), computer centres (Air France, Crédit Lyonnais...) and general public applications (La Villette scientific park, Eiffel Tower, Disneyland Paris...).



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SEFTIM : Study and Manufacturing company for modern industrial techniques. Not contractual document. SEFTIM - 06-03 EN.



Ingénierie électronique

Electronic engineering

Ingeniería electrónica



Rénovation de systèmes électroniques

Overhaul of electronic systems

Renovación de sistemas electrónicos

Compatibilité électromagnétique (CEM)

Electromagnetic compatibility (EMC)

Compatibilidad electromagnética (CEM)



ELECTROMAGNETIC COMPATIBILITY



standards, tests.

Development and manufacturing of specific devices

Filters, shielding, surge voltage limiters, surge protective devices, lightning strike counters, impulse counters, lightning protection systems.

Study and set-up

Protection of sites, immunity and protection of electric and electronic systems.

Assistance to building owner for contracting follow-up

Working site control, control on site of equipments, earthing measurement at low and high frequency.

We carry out protection against all kinds of electromagnetic aggressions: lightning, industrial noises, electrostatic discharges, radio electric interferences, electromagnetic impulses.

Four spheres of activities :

Consultancy advice

Elaboration of normative documents, qualification of materials, development of technical specifications, implementation of

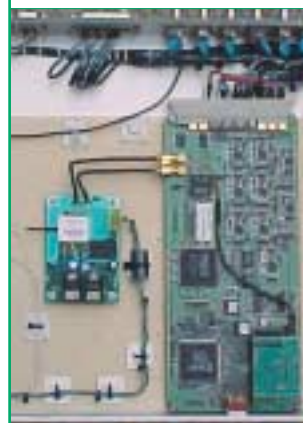
to protect
the electronic systems



The many references acquired by SEFTIM testify to its capacity to intervene in all the stages of the projects :

- Field or file study of existing installations,
- Risk assessment,
- Definition of the means to implement,
- Drafting of technical specification,
- Issuance of invitations to tender,
- Evaluation of the received offers,
- Analysis and installation of equipments,
- Certification of the installed system,
- Maintenance of the installation.

ELECTRONIC ENGINEERING



to modify
to increase
to improve
capacity of the electronic systems



Three fields of action :

Transmission and communication systems

Design and set-up of " missing links " for low frequency systems up to microwave and infrared frequencies : acquisition, recognition or reshaping devices for signals, adaptation interfaces, modulators and demodulators, transceivers.

Videos systems

Development of multiplexer and demultiplexer equipment for recording, transmission or monitoring systems for video applications : enable to increase the line capacity of existing installations or to simplify their extension.

Ancillary devices and testing equipments

Development of accessories to widen capacity of use of some equipments or to improve their operation : airborne power supply units, portable high voltage supply units, battery chargers, test facilities.

Equipped with a team of qualified and experienced engineers and technicians, SEFTIM is able to handle quickly and successfully various developments, as testified by our references.

OVERHAUL OF ELECTRONIC SYSTEMS



Three fields of intervention :

Repairing of damaged materials, with checking of their correct operation.

Overhaul of materials by search for substitutes to the failed or obsolete elements, or even by re-design of some parts.

Upgrading of these materials, by addition of new functions, improvement of the existing performances, or to make them compatible with the new standards.

Our experience includes in particular the overhaul of sub-systems of the radar system for the French Army (ground and air), the development of new ultra high frequencies sources for the transmission network of the Air Force and testing simulators for the Tacan beacons.

This extension of the lifespan of the materials is carried out :

- at a much lower cost than the replacement of these materials by new materials,
- while making the operation " transparent " for the user,
- by decreasing the necessary stock of spare parts,
- and by increasing to a significant degree the reliability of the material.



to extend
life time of the electronic systems

Strong of our experiment SEFTIM is able to renovate all radio electric transmission equipments, as well as their ancillary devices (power supply units, associated testing facility) and this, whatever is the age, the origin, the state of maintenance, and the level of technical documentation available for the materials to be treated.