

**Estar System: total view  
of your projects in electronics**



**Estar System: total view  
of your projects in electronics**



**ESTAR**  
SYSTEM

# Estar System: total view of your projects in electronics



Foreseeing  
Overseeing  
Making your  
project durable

Management  
of total  
electronic  
projects



Hardware  
and software  
engineering  
Mechanical  
engineering



CAD  
Services  
Electronic  
Prototypes

Your industrial projects  
rely on our undertaking  
of the total project,  
entirely integrated.

Welcome →

**ESTAR**  
SYSTEM



[How to use this Acrobat PDF document ?](#)

[exit](#) ✕



Independence, Total Vision and Expandability serve your projects and are at the heart of our processes

# Estar System concept: the Enhanced Management



### More than services: coordinated expertise.

By undertaking all the design, development and follow-up stages, we created the "Enhanced Management", a method which coordinates all the skills and services necessary to perfectly achieve your electronic products and systems.

Because of the potential for added functionality of all our solutions, we guaranty follow-up and support in time.

Whether you are a professional in electronics or in another industry, our method guarantees the best results throughout your product lifecycle.

**As a result: while managing your project from A to Z, Estar System Group anticipates and plans for difficulties that may happen during an often complex integration from multiple contributors.**

▼ [Choose a section](#)

Estar System Group

Partners

Sites & Access

Expertise, Skills & Services

Your Project at Estar System

Your dedicated contacts

Your message @



Our achievements in different sectors of the electronics industry and in other industries speak for themselves about the pertinence of our method and our capacity for industrial project management.



Philippe Evenat,  
Chairman & Managing Director, Estar S.A.S

## Your solutions-partner

Since 1985, Estar System Group has established its notoriety upon three commitments: independence of resources, multiplicity of skills, and proximity.

### For which benefits?

Above all, **creativity**, synonym for close adaptation to your standards and industrial goals; next, **the management of your project**: you only have to deal with one supervisor from the your specifications to the delivery of your product and follow-up work; lastly, **the guaranty of a continuously enhanced return on investment**, without worrying about homogeneity or durability of your product.

**ESTAR SYSTEM GROUP**

**Partners**

**Sites & Access**

**Expertise, Skills & Services**

**Your Project at Estar System**

**Your dedicated contacts**

Your message @



**One group, its partners,  
one single method:**

- considering each industrial project in its entirety,
- ensuring consistency of all the skills and resources,
- implementing of the best solutions for a sustainable return on investment.



**SOFTWARE ENGINEERING  
& INDUSTRIAL APPLICATIONS**

**MECHANICAL ENGINEERING**

**MANUFACTURING  
LOCAL, NATIONAL  
& INTERNATIONAL PARTNERS**



**Coordinated teams,  
centralized performance.**

We have always preferred expertise over tools and are convinced that the best results come from a close integration of varied skills. Does your project need a multiplicity of skills? It is available and managed within Estar System Group.

From the beginning of your project, a supervisor is at your disposal, continuously managing and coordinating your project; during the entire lifecycle of your product, the Estar System partners will show a flawless synchronization.

**The synchronization within our organization and the multiplicity of skill domains make us able to offer validated Total Solutions.**

Estar System Group

Expertise, Skills & Services

**PARTNERS**

Your Project at Estar System

Sites & Access

Your dedicated contacts

Your message @





## Software engineering & industrial applications

Specialist of distributed architectures (JAVA, J2EE & XML), Novelios carries out services in NTIC development.

The Novelios technical platform and engineers effectively respond at every stage of a technical project. Through multiple proposed forms of collaboration (*co-contracting, sub-contracting, realization as service provider, by contract or under management*), you are certain of the flexibility and availability of operational resources necessary to the success of your NTIC projects undertaken by Estar System Group.

### SERVICES

- Help in elaboration of Software specifications
- Design, development, integration, HMI
- Help and expertise in n-tier architecture domain
- Design and Implementation of distributed applications
- Integration of applied solutions

### MASTERED TECHNOLOGIES

- Languages: C++, Java, XML, LABVIEW, LABWINDOW, VISUAL C
- Architectures: J2EE, CORBA
- Environments: LINUX and proprietary systems

### APPLICATION DOMAINS

- Test bench automation
- Data acquisition, computational and processing software
- Management of remote architectures (Intranet - Extranet)

Estar System Group

Expertise, Skills & Services

PARTNERS

Your Project at Estar System

Sites & Access

Your dedicated contacts

Your message @





## Complementary facilities

Estar Group is located in western France on the Rennes Saint-Malo road (40 min.); its subsidiary LEO, established within the Orsay-Saclay center of excellence, ensures continuity and presence of the Estar group to clients in the Paris area.

### Useful links...

- [www.rennes-atalante.com](http://www.rennes-atalante.com)
- [www.saint-malo.com](http://www.saint-malo.com)

### Paris → Rennes/Aigné Paris → Saint-Malo/La Richardais

- **TGV direct link**  
Paris → Rennes → Saint-Malo
- **Air link to London**  
also available 5mn from our site
- **By road, with A11 motorway:**  
"L'Océane", it takes 3h30 to go from Rennes to Paris "Pont de Sèvres"

[Online itinerary](#)



Estar System Group

Partners

SITES & ACCESS

Expertise, Skills & Services

Your Project at Estar System

Your dedicated contacts

Your message @



- **Estar Electronique:**

Management of industrial projects ↗

Test systems ↗

- **Estar Hyperfréquence:**

Microwave specific product development ↗

Test bench development ↗

**LEO**, Microwave project Management ↗

- **CAD and electronic prototyping:**

**Alliance PCB** ↗



### Our expertise forms the core of your project

#### Skills & techniques: from concept to system

Our network of skills is at the core of the Enhanced Management of the project. From design to testing, to purchasing, ESTAR System Group guarantees homogeneous, validated and sustainable Solutions.

#### Become familiar with all the Expertise & Services of Estar System Group:

- state your expectations,
- test our ability to meet all your goals in their entirety

Estar System Group

Partners

Sites & Access

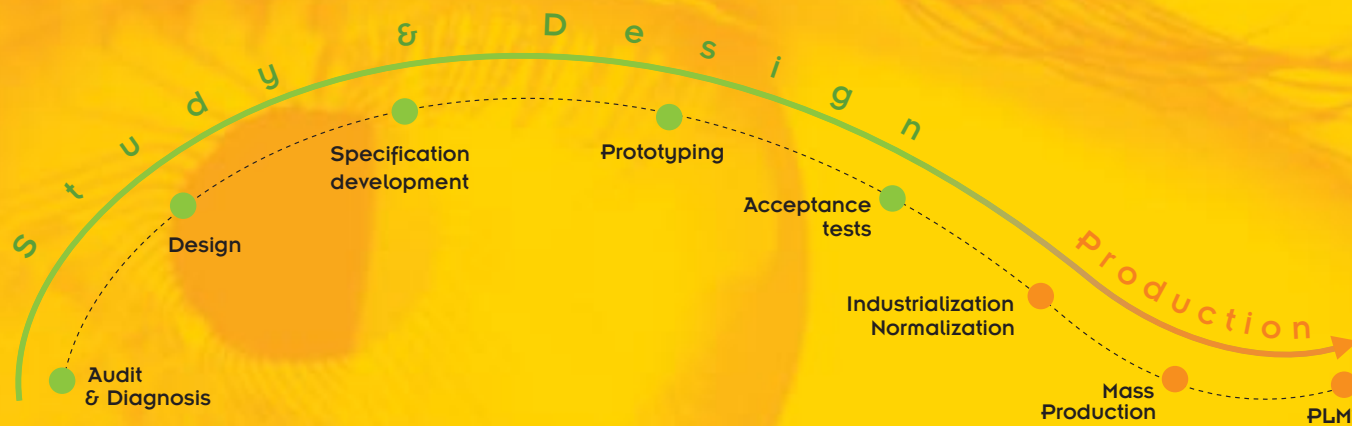
**EXPERTISE, SKILLS & SERVICES**

Your Project at Estar System

Your dedicated contacts

Your message @





### Industrial Project Management

[→ + more details](#)

\* PLM: Product Lifecycle Management

## A → Z

### An extended vision of your Project.

Thanks to its integrated expertise and method, Estar System Group goes further, by proposing a complete support, suitable for the technical and financial goals specified at the beginning of the project.

Take advantage of a process where product design and fabrication phases are entirely coordinated.

**Your industrial projects are totally managed.**

Find out the specifics of an Estar System Solution

VIGISTAR

Estar System Group

Expertise, Skills & Services

Partners

**YOUR PROJECT AT ESTAR SYSTEM**

Sites & Access

Your dedicated contacts

Your message @



## Management of industrial project

- **AUDIT & DIAGNOSIS**

- Audit & diagnosis
- Ergonomics
- Functionality
- Design
- Price target

- **DESIGN & IMPLEMENTATION**

- Design & implementation
- Specification development
  - Hardware & Software definition studies
  - Integration, ergonomics, industrial design studies
  - Printed Circuit Board studies
  - Prototyping
  - Acceptance tests

- **INDUSTRIALIZATION, STANDARDIZATION**

- Reliability analysis
- Products Qualification (EMC, LV)
- Industrial Optimization
- Test equipment & manufacturing tools
- Industrial reporting

- **MASS PRODUCTION**

- Integrated purchasing
- Manufacturing: - printed board  
- integration of entire sub-systems
- Central technical management  
of subcontracting for mass production

- **PLM (PRODUCT LIFECYCLE MANAGEMENT)**

- Technical survey
- Obsolescence management
- Software evolution
- After-sale services and operational continuity

Estar System Group

Partners

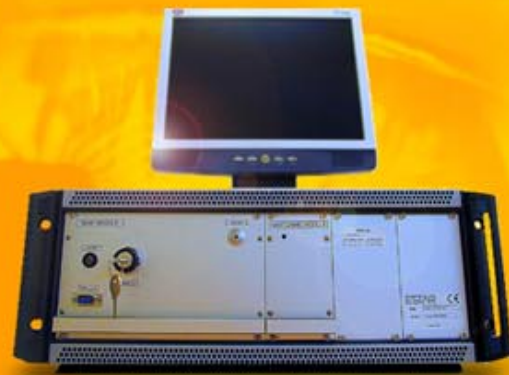
Sites & Access

**EXPERTISE, SKILLS & SERVICES**

Your Project at Estar System

Your dedicated contacts

Your message @



## Test systems

### Flexibility and expandability

To meet the imperatives of quality and traceability required by the automotive equipment manufacturers, Estar Group developed a range of systems integrated on production lines of automotive sub-systems to control and measure electronic equipments.

[Estar System Group](#)

[Partners](#)

[Sites & Access](#)

[EXPERTISE, SKILLS & SERVICES](#)

[Your Project at Estar System](#)

[Your dedicated contacts](#)

Your message @



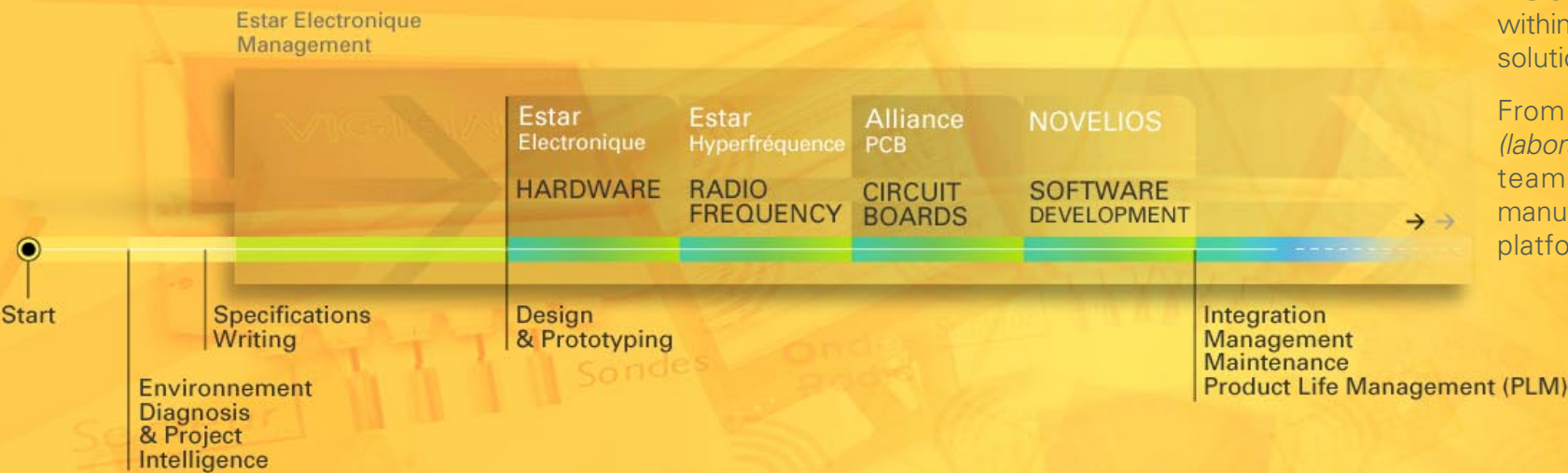
## VIGISTAR

### Case study: specifics of an Estar System Solution

VIGISTAR® project is an excellent example of expertise coordination within Estar Group during definition and development of a specific solution.

From analysis "in the field" of the needs of a manufacturer (*laboratory/refrigeration industry*), the Estar project management team has effectively met all the details specified by the manufacturer, and this at market price and in an "open" solution platform, in other words portable to other industries.

[→ Download VIGISTAR sheet](#)



Estar System Group

EXPERTISE, SKILLS & SERVICES

Partners

Your Project at Estar System

Sites & Access

Your dedicated contacts

Your message @





Level measurement system based on microwave radar technology. Microwave technology offers high liability and robustness at optimum price.



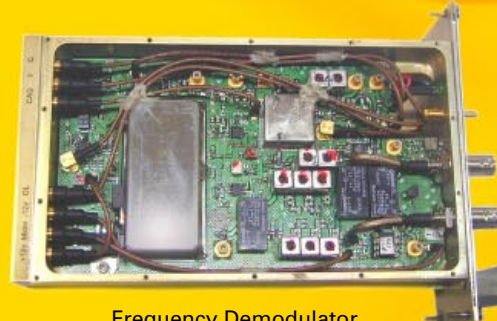
2.45 GHz Audio Video Data Link

## Specific product development

After definition and validation of the specifications by the user, Estar System Group carries out the design, perfecting, industrialization and manufacturing of the microwave product, relying on all of its internal skills.



HDTV Tuner



Frequency Demodulator for satellite reception

[Estar System Group](#)

[Partners](#)

[Sites & Access](#)

[EXPERTISE, SKILLS & SERVICES](#)

[Your Project at Estar System](#)

[Your dedicated contacts](#)

Your message @



## Test bench development

Estar microwave solutions are global: test benches are developed from the user specifications and Estar group takes charge of the mechanical, electronic and software aspects.



Test bench, to be integrated in a manufacturing line of electronic boards (monitoring system) for wireless application



Automatic test benches for RF components



Test benches for a sub-system (radar)

[Estar System Group](#)

[Partners](#)

[Sites & Access](#)

[EXPERTISE, SKILLS & SERVICES](#)

[Your Project at Estar System](#)

[Your dedicated contacts](#)

Your message @



## The management of your microwave projects in close collaboration with your teams

Teaming up with Estar Group and highly qualified partners, Leo studies and realizes highly technical electronic systems in commercial, military, and telecom domains.

Established on the Saclay plateau, member of Optics Valley, LEO is very close to the Paris area laboratories and at the crossroad of the main technological axis of France and Europe.

### The partner for the globality of your project.

From the design phase to the culmination of your project, LEO carries out complete missions including technical specifications writing, undertaking of hardware and software implementation and integration, perfecting measurement, acceptance and documentation (*French, English*) and follows the product throughout its complete lifecycle: repair, obsolescence management, sub-system expansion.

Industrialization, specifications and standards compliance, planning and cost management are the constant objectives of LEO and its partners.

[→ Zoom on LEO Services](#)

*LEO relies on Estar Microwave Department design and implementation skills*

Estar System Group

Partners

Sites & Access

**EXPERTISE, SKILLS & SERVICES**

Your Project at Estar System

Your dedicated contacts

Your message @



## Services & expertise

### Design and Implementation skills

- Electrical Simulation
- Research and sourcing of components and technologies
- Mechanical and electrical implementation
- Control and data acquisition software

### Environment

- Implementation
- Measurement

### Documentation

- Design report
- Manufacturing report
- Acceptance report
- User manual

### Maintenance

### Technical assistance

### Industry sector expertise

- Commercial
- Military
- Telecommunications

### Application examples...

- Test benches
- Simulators
- Switching
- Coupling matrix
- Connectorized prototypes
- Specific functionality studies
- Rack implementation
- Cabinet implementation
- Measurement automation

Estar System Group

Partners

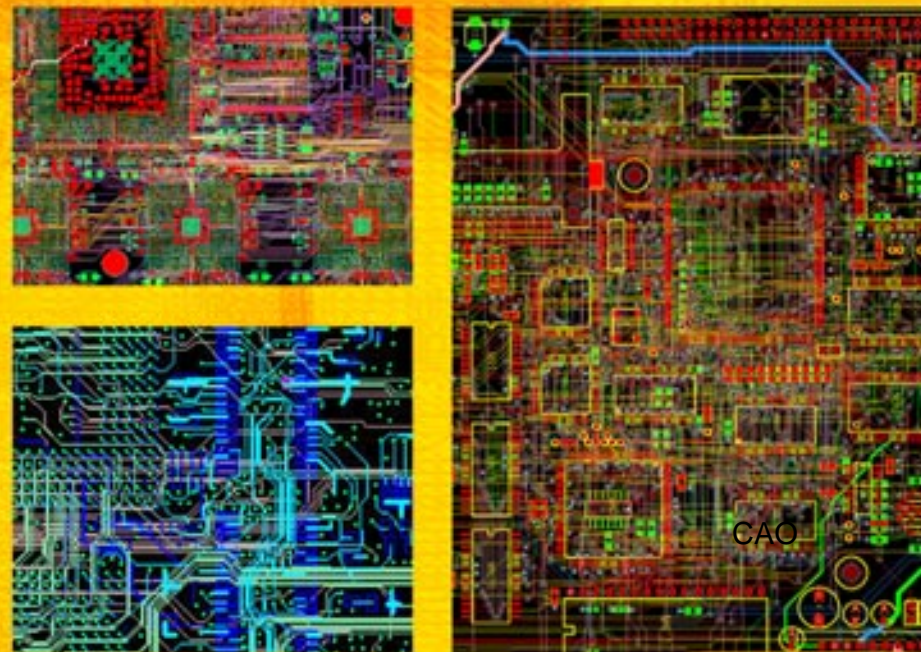
Sites & Access

EXPERTISE, SKILLS & SERVICES

Your Project at Estar System

Your dedicated contacts

Your message @



## CAD and electronic prototypes

Alliance PCB synthesizes all the skills in consultancy and design optimization of printed circuits of all types.

Its skilled teams in all domains of electronics (*analog, digital, power, radiofrequency, and microwave technologies*) ensure flexibility and reactivity for all the projects.

Through continuing education, technical survey, direct contact with printed circuit and electronic board manufacturers, Alliance PCB expertly and entirely meets the simplest to the most complex specifications.

→ [Zoom on Alliance PCB services](#)

Estar System Group

Partners

Sites & Access

EXPERTISE, SKILLS & SERVICES

Your Project at Estar System

Your dedicated contacts

Your message @

AUTOCAD

CADENCE

MENTOR

PADS



*For all these services,  
your time constraints  
will be carefully monitored,  
Alliance PCB teams  
will propose a schedule  
that meets your goals.*

## Services & expertise

### CAD studies

Electrical and mechanical specification  
and constraint analysis

Diagram capture

Component creation

### Placement and Routing:

- considering:

- specific standards (EMC...)
- technical and economic constraints
- manufacturing constraints
- printed board test ability

### COMPLETE INDUSTRIAL REPORT (CD-ROM, PAPER)

### PCB manufacturing

From single-sided to multi-layer PCB

Laser-based technology, blind and buried vias/holes

High tech rate

Electrical testing

Impedance checking

Microwave circuits

High temperature circuits

### Printed board wiring

Component procurement

Manual or automatic component  
mounting-bonding (CMS, BGA...)

BGA X-ray checking

Printed board function or in-situ testing

Estar System Group

Partners

Sites & Access

**EXPERTISE, SKILLS & SERVICES**

**Your Project at Estar System**

**Your dedicated contacts**

Your message @



## You wish to contact Estar Group about your project?

Here are the specific managers organized by skill area and department

Click on the corresponding e-mail address

## You wish to be in direct phone contact with a representative?

**+33 (0)2 99 88 69 00**

[Or click here to send us an email](#)

You will be contacted as soon as possible



**PHILIPPE EVENAT**  
CHAIRMAN AND MANAGING DIRECTOR  
[pevenat@estar-system.com](mailto:pevenat@estar-system.com)



**OLIVIER LUNEL**  
SALES MANAGER  
[olunel@estar-system.com](mailto:olunel@estar-system.com)



**GREGORY MARCHAND**  
SALES EXECUTIVE  
[gmarchand@estar-system.com](mailto:gmarchand@estar-system.com)



**PHILIPPE FLAUX**  
INDUSTRIAL PROJECT MANAGER  
[pflaux@estar-system.com](mailto:pflaux@estar-system.com)



**DAVID LAMBERT**  
INDUSTRIAL PROJECT MANAGER  
[dlambert@estar-system.com](mailto:dlambert@estar-system.com)



**DANIEL L'AMOULEN**  
AUTOMOTIVE PROJECT MANAGER  
[dlamoulen@estar-system.com](mailto:dlamoulen@estar-system.com)



**YANN PRIGENT**  
MICROWAVE-RF PROJECT MANAGER  
[yprigent@estar-system.com](mailto:yprigent@estar-system.com)



**PHILIPPE LESTER**  
MICROWAVE-RF PROJECT MANAGER  
[plester@estar-system.com](mailto:plester@estar-system.com)



**PATRICK NIVÉS**  
PRODUCTION MANAGER  
[pnives@estar-system.com](mailto:pnives@estar-system.com)



**STERENN LE NAGARD**  
ADMINISTRATIVE & HUMAN RESOURCE MANAGER  
[info@estar-system.com](mailto:info@estar-system.com)

**Estar System Group**

**Partners**

**Sites & Access**

**Expertise, Skills & Services**

**Your Project at Estar System**

**YOUR DEDICATED CONTACTS**





## This PDF document is interactive.

It is very simple to navigate this document and view its different sections. Like on a web page, you just click on the title to go to the corresponding section. If you want to navigate this document within Acrobat® Reader® environment, press "Esc" key or [click here](#).

**To use its main functions, here are the different clickable symbols displayed at the mouse location:**



### Simple link to an other page or part of the document

This symbol is the most common: with a simple click, it enables complete access to the document sections.



### Internet active link: [www site](#), [automatic e-mailing...](#)

When encountering this symbol, your email editor and internet browser are automatically launched. The address of the link is indicated.



**Zoom area:** one click zooms in; each click makes the displayed area scroll down. At the bottom of the page, automatic return to full screen.

### NAVIGATION BAR WITH A CHOICE OF THE FOLLOWING FUNCTIONS:

Send an e-mail, go to [www.estar-system.com](http://www.estar-system.com),  
Keyword search, Print, Next page, Close the document



*.pdf* powered by aeradigital®

**aeradesign**

Solutions Créatives pour les Entreprises Créatives

Téléphone +33 (0) 299 165 769

[aeradigital@aeradesign.com](mailto:aeradigital@aeradesign.com)

[www.aeradesign.com](http://www.aeradesign.com)

Product names, brand names and company names shown in this document may be trademarks or designations of their respective owners.  
Technical features and specifications of products, technologies or services may be modified without prior notice.

aeradigital® is a registered trademark of aeradesign. All rights reserved.