



ENGINEERING • FABRICATION • SERVICE

## DESIGNER AND MANUFACTURER

Innovative solutions development

Dedicated systems manufacturing

### Activities

Development, industrialization and manufacturing of mechatronic equipments on requirements in small and medium series (10 to 10000 units per year).

### Innovations

40 years of expertise in the fields of electronics, mechanics, embedded softwares, electrotechnics, optoelectronics, hydraulics and plastics.

### Services

Specifications establishments, technical advices, proof of concept (POC), tests, standards, certification, manufacturing, logistic, calibration, after sales service.

### Fields

Automotive, construction, electrical equipments, environment, industrial equipments, railway, maritime, health, telecommunications.

### ISO 9001 : 2015

Design, manufacturing, sales and after-sales  
of innovative technical products  
based on electronics, mechanics, optic and software.



**40** years  
of innovation

# Our innovations

Our engineering and production departments offer *expertise, knowledge, versatility* and *flexibility*, for support during your all project.

**100 %**  
of your project made  
in one site

## PROTOTYPING

- Mechanical workshop
- Standard & SMD soldering, wiring
- Bench assembly
- Over-moulding

## INDUSTRIALIZATION

- Assembling process definition
- Molds
- Test tools
- Supply chain

### TEST ET VALIDATION

- Thermal, climatic, vibrating tests
- Leakage test, pressure test
- EMC prequalification
- Functional validation



VLC geolocation indoor



EMI3 rack



IFR600 flowmeter



UV254+ probe

# Our solutions

- Water quality analysis monitoring
- Fuel injection test systems
- Sensors & intelligent instrumentation
- Test benches & test equipments
- Energy conversion & power electronics
- Connected objects, IIoT, M2M
- Electronic obsolescence treatment



Small and medium series of 10 to 10000 units per year



## CERTIFICATION

- Certification for pressured equipments *directive 2014/68/UE*
- Production (EN 60079-0, IEC 60079-0) *directive ATEX 2014/34/UE - IECEx*
- Maritime certification *directive 2014/90/UE - DAHMAS*
- Normative marking *UL, CSA, RoHS*

## PRODUCTION

# Our customers

**100 %**  
of the production  
in our workshops  
at Montagny

## START-UP

Support for the development and industrialization of first product ●



Man Over Board beacon



## SME

Design and manufacture of product to complete a range or to improve an existing product ●



Wireless diagnostic plug for automotive production line control

## FIRM

Test for prototypes characterization, test for new market concepts, IIoT for production monitoring ●



Optical fiber temperature measurement system



## ELECTRONICS

- CAD
- Analog, digital, power, radio frequency.

## MECHANICS

- CAD
- General mechanics,
- Precision mechanics,
- Plastics, thermoforming, 3D printing technology.

## ENGINEERING

## SOFTWARES

- Embedded software,
- HMI software,
- Database.

## OPTOELECTRONICS

- Optical spectrum treatment,
- LED power control,
- Image processing.

## ELECTROTECHNICS

- Design and integration of electrical and automation solutions.

## HYDRAULICS

- Pneumatic cabinet manufacturing,
- hydraulic installation on test system from -0,5 to 3000 bar.

# Our structure

**40** years of innovation

**50** % engineering

**50** % production

**60** % export

**70** collaborators

## Our distributors

USA • Germany •  
India • Vietnam • Taiwan



A subsidiary established in China (Hangzhou) for 20 years to provide technical support as installation, training & maintenance.

## Contact us

ZAC du Baconnet  
192, Allée des Chênes  
69700 - MONTAGNY  
FRANCE

[www.efs.fr](http://www.efs.fr)

+33 (0)4 72 49 27 72  
[sales\\_etu@efs.fr](mailto:sales_etu@efs.fr)

