

30 YEARS EXPÉRIENCE

160+ HARDWARE/
SOFTWARE BLOCKS

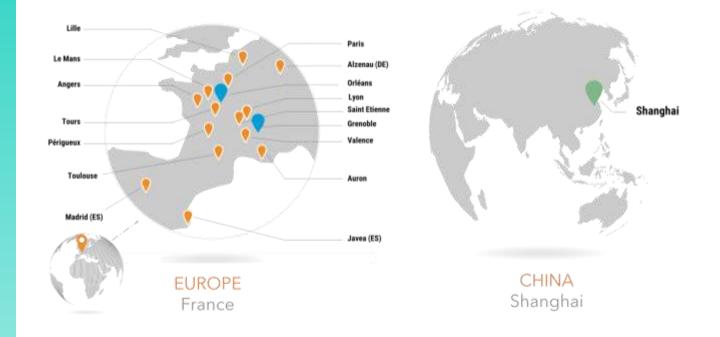
ÉLECTRONIC IoT

PLASTIC METAL...

60 EXPERT-ENGINEERS 270 people worldwide

Orléans, France : headquarters, R&D centre, production

Shanghai, China: fully-owned production site





















More than 120 IoT project launches





Smart home & Building consumption



















NOD O













A PROGRAM FOR EVERY NEED

from strategic innovation thinking to design and production of smart devices

in an ecoresponsible way

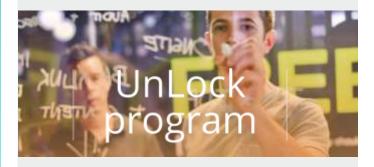




program

3 PROGRAMS FOR 3 DESIGN & PRODUCTION NEEDS

- Define and draw up product specifications
- Explore technological solutions
- Conduct a technical audit of your PoC / your product



Support in defining your innovation strategy and your technological project

- Validate technical feasibility and confirm market interest
- Create prototypes
- Use an external development unit



Start-up solution to bring a concept to life with a controlled budget and a limited timeframe

- Optimize through design for manufacturing and design to cost
- Benefit from mechatronic expertise and the highest standards of industrialization
- Procurement of components, packaging and finished product logistics



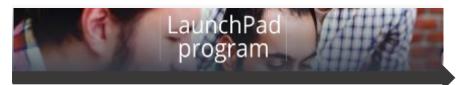
Global development and manufacturing solution with state-of-the-art industrial processes





FROM STRATEGIC THINKING TO PRODUCTION









Project definition & IoT strategy



Design Product & packaging



Ecodesign Mechanical & electronic



Prototyping of functional product Mechanical & electronic



Qualification & certification follow-up



Industrialization Toolings, manufacturing & test processes









A SINGLE POINT OF CONTACT FROM A TO Z



UnLock program

Support solution to define your innovation strategy and your technological project

YOUR EXPECTATIONS



Define and draw up your product specifications



Exploring technological solutions to meet your product needs



Perform a technical audit of your PoC / v1, to move on to the next step (Design to Cost, Indus...)





OUR SOLUTIONS



More than 20 years of experience in the industrialization of smart devices to define your complete IoT solution (hardware, software) with a quantified vision of development and production



Expert engineers to help you overcome a technical challenge and propose solutions corresponding to your product use



Expertise in eco-design, enabling us to support you and offer recommendations for reducing the environmental footprint of your product



Access to the Altyor partners hub with qualified companies for your cloud developments, applications, etc.



LaunchPad program

Solution de démarrage pour donner vie à un concept

YOUR EXPECTATIONS



Validate technical feasabilities & market interests



Get prototypes within an optimized time frame and budget



Use an external development unit

PRODUCT PROTOTYPE MINI-BATCH ASSEMBLY LINE Prototype manufacturing from 2 to 200 pcs

OUR SOLUTIONS



A unique low-risk program with commitment by milestones and controlled investments



Mechanical & electronic R&D to define the overall architecture (sizing, wireless protocols, power optimization, etc.)



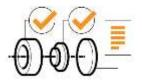
Simplified design with industrialization in mind and state-of-the-art prototyping



Proactive advice from experts driven by passion for innovation



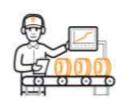
YOUR EXPECTATIONS



Optimize through design for manufacturing and design to cost



Benefit from mechatronic expertise and the highest standards of industrialization



Procurement of components, packaging and finished product logistics



OUR SOLUTIONS



Comprehensive approach encompassing R&D, industrialization, manufacturing and supply chain, guided by a project timeline



Proactive, involved and agile experts with a dedicated project team for close follow-up



360° quality management system to ensure the highest standards and reliable mass production



Tailor-made extra services: design, electronic and mechanical engineering, product certification, packaging, logistics, ecodesign,...



OUR PRODUCTION FACILITIES



2 assembly units

Expert engineers in proximity

Network of qualified partners in France

Logistics platform



2 electronic and mechanical assembly workshops

1 injection and mould maintenance workshop on site



unit China



OUR INDUSTRIAL FACILITIES











R&D CENTER

Nearly thirty mechanical and electronic engineers

+160 mechanical and electronic bricks mastered

ELECTRONICS & MECHANICS LAB

Equipment for the testing of technical functions and the creation of prototypes

PROTOTYPING LAB

3D printers available on site: SLA/DLP/FDM

QUALIFICATION LAB

Wide range of test equipment: anechoic chamber, pendulum IK test, climatic chamber, cycling bench, traction bench...

OUR ECO-RESPONSIBLE APPROACH

DURABILITY & REPARABILITY

Our ecodesign experts develop products that last and whose design allows their repair.



Our engineering teams strive for product and packaging sobriety to design products with a reduced carbon footprint.



OPTIMIZATION OF CONSUMPTION

Optimizing consumption aims at selecting the technologies that correspond to the use of the product, not more, not less.



END-OF-LIFE MANAGEMENT

End-of-life is an integral part of the product life cycle that must be anticipated as early as possible and managed intelligently.

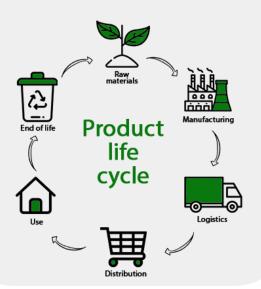


DESIGN FOR TOMORROW TOOLS

Life Cycle Analysis

LCA is the most advanced tool that allows for a global and multi-criteria evaluation of the entire manufacturing and use cycle of a product.

Systematically proposed to our clients, LCA allows them to implement the right actions to reduce the environmental footprint of products.



Design for Tomorrow scoring

The Design for Tomorrow scoring aims to evaluate the eco-responsibility of products with several levels of progression.



4 main families are taken into account in the score: **electronics**, **mechanics**, **packaging and bonus points**.

Circular economy with Altyor

Altyor offers its customers circular economy solutions through **recovery loops.**



Repair and cleaning of the product, then return for a new life cycle (donations, resale...)





Product recuperation, dismantling and recycling of materials for reuse in new products



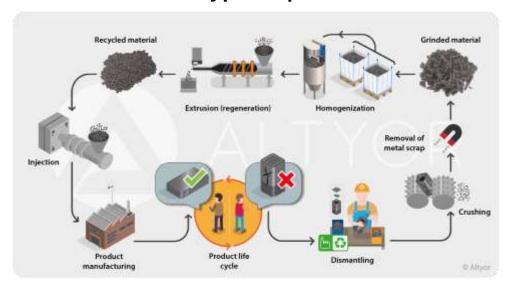






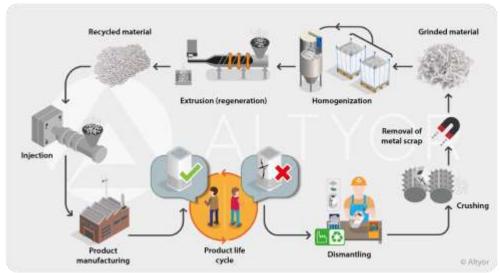
The open RECYCLING loop

The product is recovered and the materials are recycled to make a new type of product



The closed RECYCLING loop

The product is recovered and the materials are recycled to manufacture the same product reference

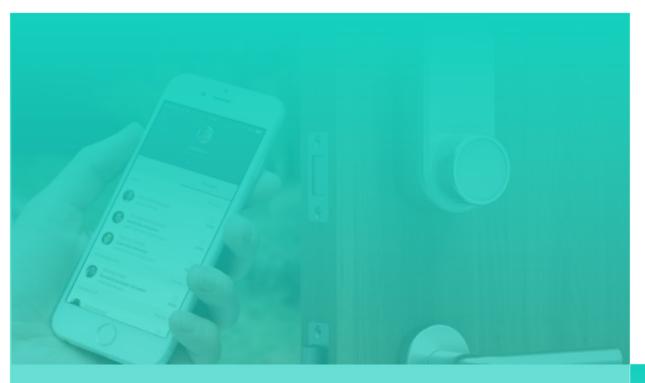


80% of plastic used was recycled material in the first half of 2022



Manufacturing with recycled materials can reduce your footprint by 70%





SHOWROOM REFERENCES







UNISTELLAR eVScope



Engineering Mechanical & electronic



Industrialization



Manufacturing

KINÉIS

Satellite multisensor & tracker









Industrialization



Manufacturing



MONEY WALKIE

Smart NFC wallet









Industrialization



Manufacturing







Industrialization





GLUE HOME

Smart door lock



Engineering
Mechanical & electronic



Industrialization



Manufacturing

SOMFY

Smarthome alarm





Engineering Mechanical



Industrialization



Manufacturing

SHARELOCK

Smart lock





Industrialization



Manufacturing



WEEN

Smart thermostat





Engineering
Mechanical & electronic



Industrialization





TORI

Game accessories

3D RUDDER

3D game accessories

TOUCHE

Electro musical instrument

OSMOSE

Musical instrument









Engineering Mechanical



Industrialization



Manufacturing



Engineering Mechanical



Industrialization



Manufacturing



Engineering Mechanical & electronic



Industrialization



Manufacturing



Engineering Mechanical & electronic



Industrialization





BUTAGAZ

Smart lock



Engineering
Mechanical & electronic



Industrialization



Manufacturing



INFORAD

Danger zone alarm



Engineering
Mechanical



Industrialization



Manufacturing

SOLAR BROTHER

Solar firelighter







Industrialization



Manufacturing

ROBEAU

Flowmeter





Graphic design



Engineering
Mechanical & electronic



Industrialization





KEEKERMultimedia robot



Engineering

Mechanical

CLICMESigfox/ LoRa button



😭 🛮 Graphic design



Engineering
Mechanical & electronic



Industrialization



Manufacturing

ZIBLUE

Dengle for

Dongle for home automation box



😭 Graphic design



Engineering Mechanical



Industrialization



Manufacturing

SEATAG

Emergency wristband



Graphic design



Engineering
Mechanical & electronic



Industrialization





HUG ONESleep assistant







Industrialization



Manufacturing

NODON

Smart building devices





Graphic design



Engineering
Mechanical & electronic



Industrialization



Manufacturing

ENGIE / ELECTRABEL BUBBLE

Retrofittable energy meter reader

Advertising loader







Industrialization



Manufacturing



Engineering
Mechanical & electronic



Industrialization





ISKNDrawing pad



Engineering Mechanical



Industrialization



Manufacturing

SIGFOX

Sens'it Multisensors



🔯 Graphic design



Engineering Mechanical



Industrialization



Manufacturing

EUROP ASSISTANCE

Sigfox button



Graphic design



Engineering
Mechanical & electronic



Industrialization



Manufacturing

OLED COMM

Lifi Lamp







Industrialization





FREE Internet box



ALDESVentilation



TECHNALWindow supplies



TOUPRET
Coating tools









Industrialization



Manufacturing





Manufacturing



Graphic design



Engineering
Mechanical & electronic



Industrialization





LACIEExternal hard drive



Engineering
Mecatronics



Industrialization



Manufacturing

FAMOCO

Bus ticket validator



Graphic design



Engineering Mecatronic



Industrialization



Manufacturing

JANASENSE

Environmental and lifestyle habits control



Engineering
Mecatronic



Prototyping

HUB + SENSORS

Securing of windows





Engineering Mecatronic



Prototyping





CONTACT US



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PRODUCT DESIGN







From client ideas or from a blank page

Design modifications made according to the customer's desires and technical constraints

Design from both mechatronic and industrial viewpoints





PACKAGING DESIGN





All-in-one packaging service

Graphic design of container and leaflet

Realistic views



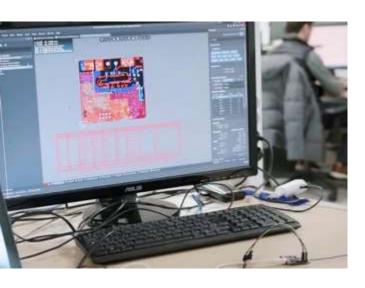




ELECTRONIC ENGINEERING

COMPETENCIES

Architecture Electronic schematic PCB routing Firmware Industrial review Certification



RADIO BLOCKS

































SENSORS

Accelerometer Gyroscope Magnetometer Brightness Infrared UV Temperature

Captive button VOC

Pressure Humidity...





MCU/CPU

Single board computer System on module ARM cortex M ARM cortex A PIC

GENERIC FUNCTIONS

Buzzer Vibrator Motor Battery charger Inductive charging

MULTIMEDIA

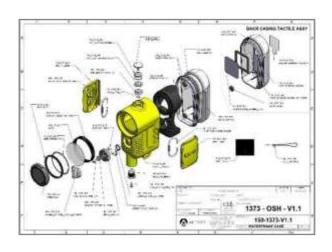
Screen Loudspeaker Audio system Microphone



MECHANICAL ENGINEERING

COMPETENCIES

Mechatronic integration
3D design
Layout
Functional dimensioning
Industrialization review



MATERIAL

Plastic Aluminium Zamak

Rubber

Silicone

Metal

Wood

Glass

Ceramic...







ASSEMBLY PROCESS

Clipping
Screwing
Crimping
UV bonding
Ultrasonic welding

MATERIAL TRANSFORMATION PROCESS

Injection
Compression
Extrusion
Stamping
Machining
Surface treatment and finishing
Marking...



INDUSTRIALIZATION

Layout Functional dimensioning Electronic routing review

Molds and tooling Test benches Assembly instructions Inspection specifications Packaging instruction sheet





PROCESS AND PROJECT QUALITY

ISO 9001:V2015 quality management Organizational excellence: DFMEA, PFMEA, continuous improvement







COMPANY QUALITY

Supplier relationship management Ethical charter and social responsibility Security and health charter

PRODUCT QUALITY

In-house qualification tests (shock and water resistance, ageing, CEM compliance ...)

Follow up of product certifications (Made in France certification possible)

Traceability management (from component to product)

Quality control (in prototyping and production phase)

94%+ service rate







SMART DEVICE EXPERT

FROM ECODESIGN
TO MANUFACTURING

make hardware better