

**Continental secures your  
vehicle launch in terms of  
planning and quality.**

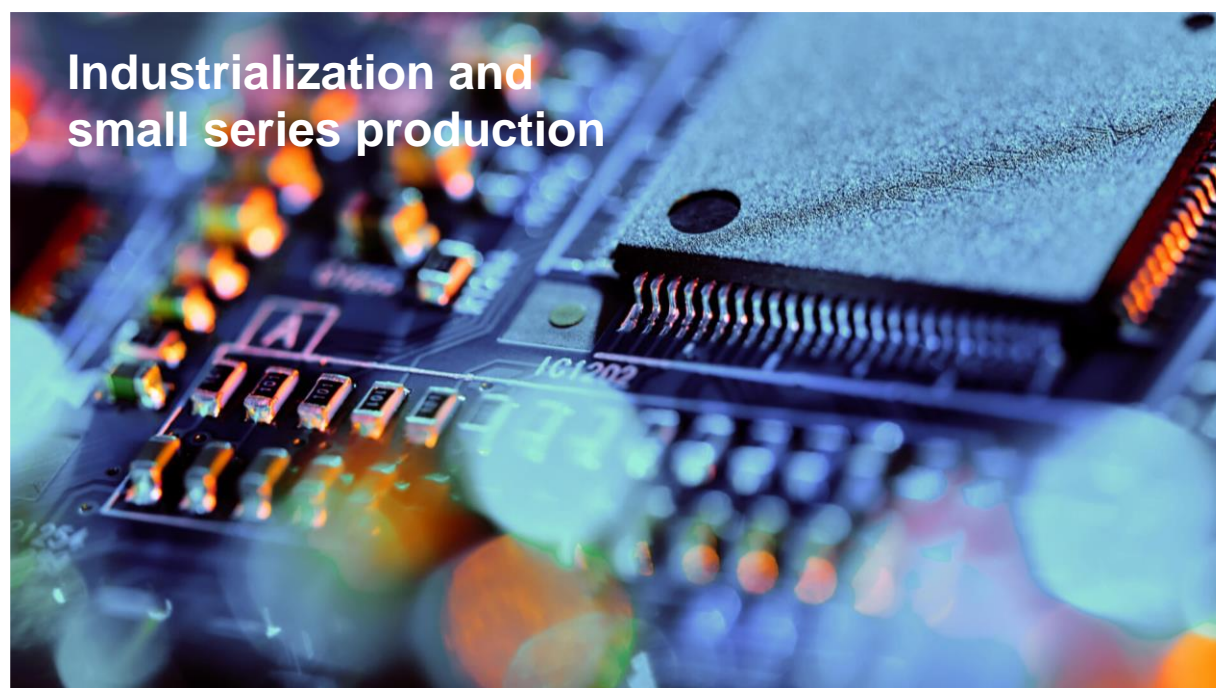
**System  
Engineering**



**Qualification  
Laboratories**



**Industrialization and  
small series production**



# System Engineering



## CYBERSECURITY & PRIVACY

- **Protection of vehicle systems or functions** from the damage or theft of their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide
- **Protection of personal data** against illegal (unauthorized by user) collecting, processing, storing, and moving

<https://continental-engineering.com/services/consulting-support/security-privacy/>



## VEHICLE ARCHITECTURE

- **Service scalable** to your wishes and needs. Compatible with other services and products of Continental
- Architecture as **flexible** as you need. New components can be integrated on demand
- **Modern tools** used to offer state of the art solutions
- Solutions enable **reuse of your components or existing Continental components** and integration up to a complete vehicle

<https://continental-engineering.com/services/concept-development/e-e-architecture/>



## FUNCTIONAL SAFETY

- **Functional safety management** support for newly developed as well as existing products to reach **state-of-the-art** (safety norms and standards)
- **Service scalable** to your wishes and needs. Compatible with other services and products of Continental
- Enable your staff to take full advantage of the potential **existing tools and methods** for the development of safe products

<https://continental-engineering.com/services/consulting-support/functional-safety-fsm/>



## Brake System Services

From small work packages up to turn-key projects:

- Brake System Layout (define the brake system **architecture** and calculate a detailed **layout** based on your OEM requirements)
- Brake Component **Recommendation** (suitable carry-over components are selected and recommended)
- Brake System **Application**
- Brake System **Validation**
- Brake System **Evaluation**
- ... up to the maximum extension: your contracted brakes department
- Project & Process **Management**
- Supplier **Coordination**

<https://continental-engineering.com/areas-of-expertise/automotive/brakes-domain/brake-system-conception/>

# Qualification Laboratories

## Reliability laboratories

- Climatic
- Humidity
- Corrosion
- Water tightness
- Vibrations
- HALT
- Spin
- Toolshop
- Thermal measurements



## EMC laboratories

- EMC
- ESD
- Electrical and transient tests



## Materials analysis laboratories

- Materials and manufacturing processes
- Failure analysis
- Controls of products after DV/PV
- New technologies introduction support
- Technical cleanliness
- Dimensional measurements



## Quality, Engineering supports and Technical services

Labs quality, EMC/Mechanics/Thermic/Reliability simulation and expertise,  
Validation Engineering, Life Time Testers , IT



Video 8min



Video 2min

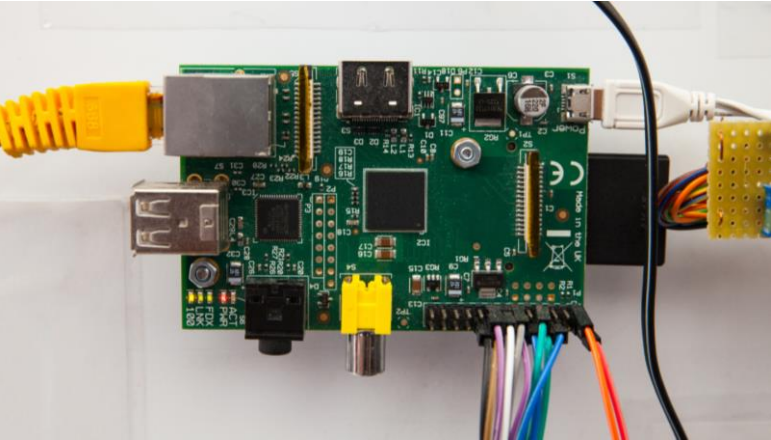


Linkedin+video



# Product industrialization

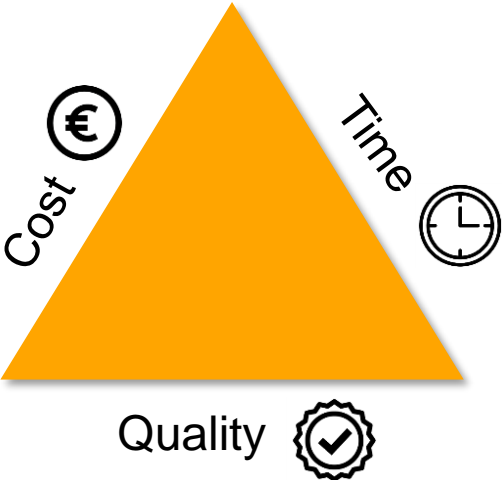
## Prototype



- Product optimization
- BOM review
- Manufacturability and testability improvement

- EMC
  - Mechanics
  - Thermic
  - Reliability
- review and recommendation

- Secured material procurement and product delivery
- Manufacturing quality and cost
- Product quality



# Electronics Manufacturing Services

## Our business

Manufacturing of electronic boards for  
Prototyping and small volumes

## Our services:

Purchasing and supply of material  
SMD and manual assembly  
Test development, ICT, functional  
Method, Process, Quality Support,  
Logistic (procurement, transport, customs)



## Production Resources

Mydata Equipment/ ASM (SMD)  
AOI/AXI  
Takaya Test  
Final assembly  
HP functional test  
Programming  
MSL storage



## Keys Figures

20 employees  
> 2500 different parts numbers  
Other activity out of automotive  
Shopfloor 800 m<sup>2</sup>

## Products





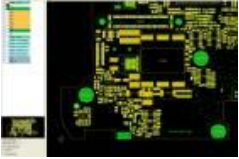


# Electronics Manufacturing Services

## The mission

Manufacturing electronic board :

- > Prototypes
- > Small Series

## Principle "Full Service"

Logistic	SMD / Final	Control	Test / Program	Technologies
<ul style="list-style-type: none"><li>▷ Planification</li><li>▷ Supply / Material order</li><li>▷ Shipping</li><li>▷ Customs</li></ul> 	<ul style="list-style-type: none"><li>▷ SMD</li><li>▷ Manual Assembly</li><li>▷ Pressfit technology</li><li>▷ PCB depaneling</li><li>▷ Coating</li></ul> 	<ul style="list-style-type: none"><li>▷ AOI</li><li>▷ Flying Probe</li><li>▷ ICT</li><li>▷ X-Ray</li></ul> 	<ul style="list-style-type: none"><li>▷ Functionnal Test</li><li>▷ Final Control</li><li>▷ Identification</li><li>▷ Applicative Prog.</li></ul> 	<ul style="list-style-type: none"><li>▷ Assembly's trials/ placement</li><li>▷ Technologies trials</li></ul> 

Control Report

Test Report

# Continental

## The Future in Motion

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