

# Christophe Castella

PRODUCT DEVELOPMENT ENGINEER  
MECHANICAL SYSTEMS & INDUSTRIALIZATION



Unified Engineering  
— Mechanical Design —

I HELP STARTUPS AND COMPANIES TURN IDEAS INTO INDUSTRIALIZED PRODUCTS, FROM CONCEPT TO PRODUCTION.

## CORE EXPERTISE

- End-to-end product development (concept → production)
- Mechanical design and system integration
- Rapid prototyping (3D printing, iteration)
- Injection molding design and industrialization
- Production follow-up and supplier coordination
- Automation and robotics integration

## EXPERIENCE & KEY ACHIEVEMENTS

- End-to-end development of two generations of mechanical systems, from concept to industrialized products
- Second-generation medical system developed with improved design and aligned with CE requirements and ISO standards
- Design and production of injection-molded components (2000+ units distributed in 15+ countries)
- Optimization of 3D-printed parts redesigned for injection molding in real production environments
- Design and integration of automated robotic systems with sub-millimeter precision
- Coordination of technical aspects across mechanical, electronics and software

## HOW I CAN HELP

- Develop a product from idea to production
- Improve and optimize existing products
- Prepare designs for manufacturing (DFM, injection molding)
- Support complex product development and industrialization challenges



## IDEAL PROJECTS

- Startups developing physical products
- Companies needing support in product development or industrialization
- Projects requiring rapid prototyping and iteration

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