

A futuristic blue bicycle is shown in motion on a city street. The bicycle has a sleek, aerodynamic design with a large front wheel and a smaller rear wheel. The background shows a modern cityscape with tall buildings and a clear sky. The overall image has a high-tech, futuristic feel.

WE BUILD WHAT MOVES THE FUTURE

Design & Industrialize your micro-mobility projects,
from prototype to mass-manufacturing with Kickmaker!



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MICRO-MOBILITY ISN'T JUST A TREND. IT'S A SHIFT.

As cities strain under the weight of congestion and climate urgency, new modes of transport are emerging, carried by entrepreneurs who believe that moving smarter is moving better.

We're engineers, yes, but also translators: of ambition into prototypes, concepts into CAD, and purpose into production.

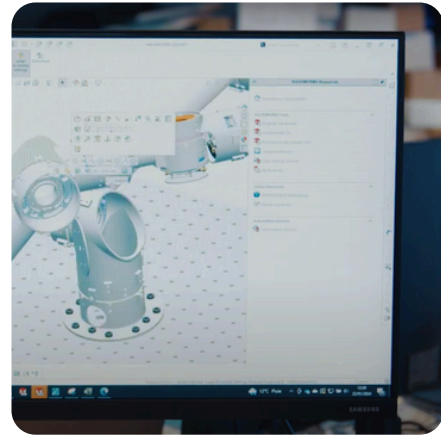
We help micro-mobility innovators scale quickly, without losing their identity.

From product design, swappable battery architecture to smart lock algorithms, we design, test, and iterate until your product is ready to ride.

Across our offices in France, China, and the U.S., we co-develop next-gen urban mobility systems with startups, scale-ups, and industry leaders. We speak DFM, certification, cost-down, sourcing, and IP ratings. But above all, we listen to you, to the market, and to what's next.



Vincent Despatin
CEO of Kickmaker



WHO WE ARE

KICKMAKER: YOUR FAST LANE FROM PROTOTYPE TO PRODUCTION.

- Founded in 2016, Kickmaker is a global engineering firm with over 300 experts in high-tech product development and industrialization.

We help startups, scale-ups, and OEMs turn innovative ideas into industrial realities, from prototype to mass production.

- Operating across France, China, and the U.S., our teams combine a maker mindset with industrial-grade execution to drive excellence in:
 - **Micro-mobility**
 - **Robotics**
 - **MedTech**
 - **IoT & Consumer Electronics**

WHAT WE DO

We support you from first sketch to industrial launch. Agile, reliable, and tuned to your industrial reality.

- **Product design, from prototype to mass-production**
- **Eco-design and sustainable industrial strategies**
- **Embedded AI and connected systems integration**
- **Lifecycle management**
- **Certification support (CE, UL, IP ratings)**
- **Supply chain optimization and cost-down initiatives**

MICRO-MOBILITY FOCUS

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We specialize in co-developing the future micro-mobility solutions

- Product & subsystems design (DFM, DFA)
- Battery pack development & certification
- Firmware & embedded system integration
- Industrial sourcing (Europe & Asia)
- Rapid iteration & accelerated go-to-market
- Industry 5.0 and circular economy strategies

Built for the streets. Designed for scale.



**Explore our proven
know-how**



CASE STUDIES

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COMPLETE DESIGN OF E-BIKES AND ARCHITECTURE OF A SWAPPABLE BATTERY SYSTEM.

Enyring set out to develop a fleet of smart electric bikes built around a removable battery system, allowing users to quickly swap batteries at dedicated stations.

Kickmaker supported Enyring from the design phase through to the first prototypes, addressing mechanical, industrial, and logistical challenges.

- ✓ **Mechanical design**
- ✓ **SOP documentation**
- ✓ **Component sourcing**
- ✓ **Design for assembly**
- ✓ **POC development**
- ✓ **Design for manufacturing**

→ Modularity, ease of assembly, and component adaptability were key to aligning the design with Enyring's specifications.





DEVELOPMENT OF A TEST BENCH FOR ELECTRIC BIKE DIAGNOSTICS

As a specialist in e-bike reconditioning, Loewi combats electronic waste through circular economy practices. They needed an industrial partner to design and build versatile test benches compatible with multiple brands.

Kickmaker engineered and built specialized benches to rigorously assess the overall performance and reliability of e-bikes.

- ✓ **Prototype design**
- ✓ **Specifications update**
- ✓ **Update of prd and compliance matrix**
- ✓ **Validation**
- ✓ **Production**
- ✓ **Final pricing of the test bench**

→ The focus was on reducing analysis and testing time per bike, minimizing manual handling, limiting human error, and ensuring ease of use.





SMART LOCKING SYSTEM FOR SHARED BIKES

Ecovelo, a key player in eco-friendly urban transport, sought to expand its bike-sharing network with a dependable, scalable locking system.

They turned to a technical partner to engineer and produce a fully integrated mechanical-electronic lock.

Kickmaker developed a robust locking solution for shared bikes—designed for high security, intuitive use, and compatibility with multiple bike models.

- ✓ Ideation workshop
- ✓ Concept proposals & sketches
- ✓ Production of remote-controlled lock prototypes
- ✓ POC (mechanical + electronic)
- ✓ Mechanical resistance laboratory test
- ✓ Pre-production redesign phase

→ The priority was to ensure durability in urban environments, enable remote control features, and support easy maintenance and large-scale deployment.





INDUSTRIAL PRODUCTION SUPPORT

Heritage Bike set out to blend artisanal craftsmanship with industrial-grade performance to position itself as a premium brand in the cycling market.

They were looking for an experienced partner to tackle complex engineering and production challenges.

Kickmaker supported Atelier Heritage Bike in developing products that meet French luxury standards while maintaining control over deadlines and costs.

- ✓ **Setup of the production line**
- ✓ **Project follow-up**
- ✓ **Certification support**
- ✓ **Cost and deadline optimization**
- ✓ **Mobilization of cross-disciplinary expertise**

→ The focus was on aligning luxury design with industrial feasibility, ensuring product certification, and setting up efficient production processes.



Kickmaker's intervention throughout the project allowed us to focus on the design & commercial structuring of the project and to secure the technical relationship with our suppliers.

-Xavier Wargnier, CEO



SUPPORT IN CERTIFICATION & TESTING

To support its U.S. expansion, Moonbikes partnered with Kickmaker for technical expertise. They needed guidance on sourcing and regulatory compliance to successfully enter the North American market.

Kickmaker provided certification support and regulatory follow-up for MoonBikes in the U.S. and Canadian markets, as well as assistance in sourcing batteries and motors from China.

- ✓ Sourcing of batteries and motors in China
- ✓ RFI and RFQ in China for sourcing batteries and motors
- ✓ Certification support
- ✓ Workshop to validate certification scope requirements
- ✓ Monitoring and assistance throughout the full certification process

→ The focus was on delivering sourcing and compliance expertise to enable a successful entry into the North American market.



Kickmaker clarified the regulatory landscape for our product, helping us prioritize development and manage risk.

-Vincent Douillet, engineer at Moonbikes



ELECTRIC VEHICLE CHARGING STATIONS DESIGN & INDUSTRIALIZATION

Valeo is a global leader in automotive technology. They sought an external engineering partner for industrial support in the development of low-cost solutions for mass production.

Kickmaker conducted audits of the manufacturing and certification processes, and supported the design and optimization of injection-molded parts. Making a low-price solution for mass production.

- ✓ **Qualification creation & certification plan (IEC 61851 & IEC 61439 standards)**
- ✓ **Production of several bollard batches**
- ✓ **Transfer of the manufacturing file (SOP, test bench, support for the customer during the production and launch phase)**
- ✓ **Design and optimization of a set of injected parts**

→ The focus was on mastering design and industrialization, enabling local development in the Paris urban micro-factory through an efficient and agile collaboration.



Looking for a partner who combines professionalism and agility, we found exactly that in Kickmaker, establishing a long-term relationship of trust.

-Stéphane Martinot, R&D director



Let's build what moves the future together

Paris · Lyon · Nantes · Grenoble · Shenzhen · Boston · San Francisco



www.kickmaker.fr