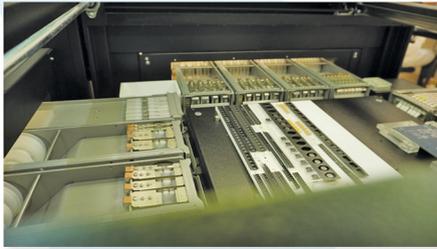# Hardware Development

SmartMe offers consulting, design, and development services for the creation of hardware and embedded systems, manufactured on-site in the company's dedicated production facility. Through careful analysis and ongoing consultation with the client, we develop a product roadmap, in which hardware development is the essential first step in the manufacturing project. At this stage, based on the hardware's specific needs and requirements, we identify the best possible solution in terms of flexibility and longevity.

Firmware Development

SmartMe has the expertise needed to design and configure dedicated firmware, which is the software that enables the functionality of all electronic devices, from sensors to serial buses to integration with graphic displays. Firmware plays a key role in managing resources, memory, low-level communication channels, I/O, and the microprocessor or microcontroller. At SmartMe, firmware is meticulously maintained and designed to ensure the best possible support for both the hardware and the specific software integrated into the device.

Software Development

We design and develop software that ensures an intuitive, fast, and reliable user interface. We pay the utmost attention to graphics in order to provide our customers with a product that has a unique and recognizable identity for any technological upgrades. The software developed by SmartMe is therefore always developed and optimized according to the customer's needs. One example is the compliant, open-source fleet manager project, designed to enable the remote management of multiple devices in a horizontal and extremely practical manner.

Park Finder

ParkFinder is an advanced system that uses AI to identify available parking spaces on the street or in dedicated parking lots in real time. By analyzing data from sensors located throughout the city and learning from users' parking habits, ParkFinder offers a personalized solution to find the best place to park your vehicle.

CrowGuard Monitor

CrowdGuard Monitor uses artificial intelligence and cutting-edge sensors to monitor crowd density in real time, ensuring public spaces are safe and comfortable for everyone.

HG-Aura

HG-Aura is a platform based on Agentic AI and Edge AI for environmental protection and citizen safety, while respecting privacy. It relies on a network of sensors distributed across the territory, capable of monitoring natural hazards and detecting illegal behaviors that are harmful to the environment.