



We bring
high-tech
to life



Multidisciplinary one-stop-shop

Sioux has all the expertise in-house to make a maximum contribution to the success of high-tech products and production systems. The strength of Sioux lies in the unique combination of high-quality competencies in software, mechanics, optics, physics, mechatronics, electronics, mathematics and remote solutions. With over 500 engineers, Sioux supports or acts as the R&D department of leading high-tech companies. Sioux is keen to take responsibility: from consultancy in the concept phase up to and including series production. Sioux aims to add value for its customers and help them build innovative solutions that contribute to a society that is smarter, safer, healthier, more enjoyable and more sustainable.

Impact with smart modules

The complexity of technological products is increasing. The interaction between software, electronics and mechanical systems is becoming increasingly important. The addition of functionality, scalability and margin is largely achieved by developing complete functional modules with all these disciplines perfectly aligned.

And because it is so important to your distinctiveness, the best people should be put on the project as one team, with the best development processes and the best results. At Sioux, we have more than 20 years of experience in realizing technically advanced, intelligent products and systems for our customers.

Accelerating your success

Sioux contributes to the success of customers by taking responsibility from concept to delivery, entrepreneurship, creativity and an enormous passion for technology. We offer our customers:

- > Mechatronic solutions
- > Electronic systems
- > Embedded software
- > Mathware
- > Equipment control platforms
- > Accurate positioning
- > Application software
- > Model driven software
- > Inkjet solutions
- > Intelligent transport systems
- > Portal & app factory



SOURCE OF YOUR TECHNOLOGY



“We deliver top performance in an **efficient & effective way** for a competitive price.”

Project example: Atomic Layer Deposition Equipment

SoLayTec is a TNO spin off. The production machine of SoLayTec deploys a so called spatial Atomic Layer Deposition (ALD) processing technique - a layer of aluminium oxide of just a few nanometres - on silicon solar cells, by moving them through the machine quickly and precisely using air bearings. With each pass exactly one atomic layer is deposited, increasing their yield by more than six percent. A true nano-tech application.

Sioux develops the software and part of the electronics for the SoLayTec production machine. This includes motion control, material logistics, machine control, algorithms, calibration, electrical engineering, remote diagnostics and the GUI.



Project example: Foetal ecg monitoring

Startup Nemo Healthcare developed Atlantis, a medical device that is capable of monitoring the heart activity of an unborn child. This application uses an electrode patch on the abdomen of the pregnant patient.

Sioux develops the analogue frontend for the product containing sensitive analogue electronics, a microcontroller with embedded software and a fibre to USB convertor. Sioux also develops the base station that is connected to different CTG monitors. Finally, Sioux takes care of the production and testing of the amplifier hardware and base station. The entire project is executed according to the quality standards of ISO 9001 & ISO 13485 (medical).

