



DermaSii medical device

for skin lesion diagnostics

The DermaSii device represents the full spectrum of Sii's R&D capabilities to deliver a complete, medically compliant solution for the healthcare industry — from hardware assembly, through AI-powered lesion visualization and analysis, to complete medical documentation.

Standards ISO 13485 | ISO 14971 | IEC 60601-1 | IEC60601-1:11 | IEC 62304

What we did

- > **Application** Secure Python and C++ based solution with a user interface for storing and managing time-stamped medical images
- > **Computer Vision** Implemented size detection and colour-based image processing
- > **AI Solution** AI model determines the probability of a lesion belonging to each of the 9 skin lesion categories, including skin cancer, based on a mole's image
- > **Hardware** Custom hardware with off-the-shelf components such as a microscope, sensors, electronics, and housing
- > **Compliance** Model medical documentation appropriate to the device class and regulatory requirements, ready for external audit
- > **R&D** Identification of key technical aspects for a specific area, such as proper lighting, electronics, AI and 3D printing techniques, image processing and mathematical algorithms



Technologies



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