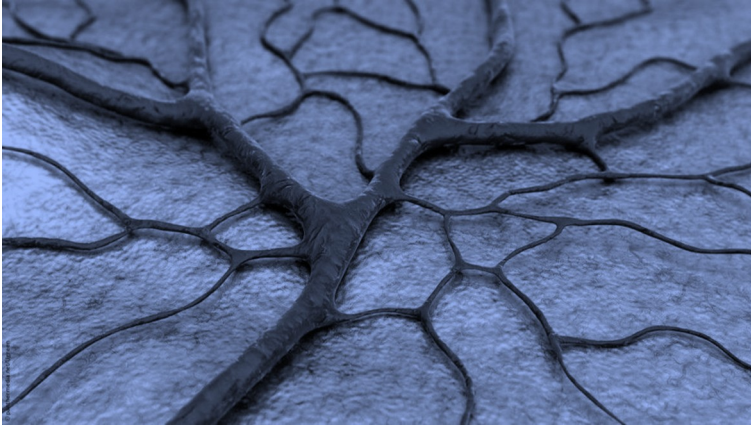


Customer

Developer of innovative technology to observe the human micro circulation using a digital handheld video microscopy camera, together with specialized software to capture and analyze the video images.



Customer Objectives

- > Solving overheating problem of the device.
- > Increasing product quality through Motor & Power consumption improvement.
- > General design optimization and correction of design flaws from previous suppliers.
- > As if often the case with devices with a very long life-time, multiple suppliers worked on the various designs over the years.

AimValley Solution

As a first project for this customer, AimValley developed a redesign of the current camera board as well as the driver software. Improving the functionality of the camera device.

Healthcare devices need to have a very long life-time by default. As is often the case, multiple suppliers worked on the various upgrades over the years, resulting in a sub standard design. AimValley took care of a general design optimization and corrected any residual design flaws.

Key Technologies

- > Cypress FX3
- > FPGA interface and softcore
- > Camera & Motor control
- > PC driver software & softcore firmware
- > C-Language

Results and Added Value

Efficient

With the right skills, AimValley solved the overheating problem of the products. Trouble shooting in a limited amount of time.



Partnership

After solving the customer's problem and improving the product quality, AimValley was requested to work on the next challenging project with this client.

Successful

External design improvement of the original camera architect. Significant quality improvement delivered to the customer.



Innovation

AimValley enhanced the camera capabilities, reduced the power consumption and optimized the board design to meet the required lifetime.