

Transforming
Cervical Screening
with PeoplActive

About the company

The New Zealand based medical device company offers the latest technology in cervical screening, providing real-time, accurate detection of pre-cancerous and cancerous cervical cells to help improve the health and well-being of women around the world. Their product has been clinically tested 17 times by over 10,000 women around the world, and has been proven to perform equal to, or better than, alternative cervical screening tools.



CHALLENGES

The company presently uses an AI based software for AFE and EOA pairing and optical calibration purposes. However, the team was facing the following problems with their old configuration.

- 01 The old software was not production-grade software and was not suitable for daily use.
- 02 The GUI was not properly designed for production
- 03 Too much redundant or incorrect information in the User Interface (UI)
- 04 The software was too slow. It used to take about 40 minutes to finish one calibration procedure.
- 05 The software was not reliable. It reported failures for no reason which may be eliminated by repeating tests
- 06 Engineering test functions and redundant processes were to be removed



OBJECTIVE

Considering the above problems and the incompatibility of Delphi as a platform with certain hardware, the company was looking to redevelop software from scratch in C++ with the same functionality to meet the software's optical pairing and calibration requirements.

PeoplActive had the right resources for the flawless execution of this redevelopment project and this is how it went.



SOLUTION

Our team developed an upgraded version of the company's software by implementing some major changes such as hardware upgrades in digital multi-meter & COMMS ports setup.

Further, the optical pairing and calibration process time was reduced from 40 minutes to 20 minutes in the new software.

The redundancies in the GUI were removed and the new software was used in production and finished more than 30X AFE+EOA optical pairing and calibration processes successfully. There was a significant improvement in the process flow, calibration results, and process reliability.



THANK YOU!