

Integration of 2 novel technologies to develop a POC In-vitro diagnostic platform

20X improvement in test time and sensitivity for Malaria and Sickle cell detection compared to conventional technologies

Developed for US based medical diagnostic start-up

- Extensive market research to understand emerging market
- Product requirement and specification identification
- Product design and engineering
 - Cost sensitive Design – production cost at relatively low volume <\$300
 - Machine vision based miniature Automated Electrophoresis platform (up to 400V, 30mA)
 - Ultra low noise optics detection system
 - API based scalable testing platform based on Linux with new age communication systems – WiFi , BLE ,GPS and AWS based dedicated cloud connectivity.
 - Complete embedded software development based on IMX6 and STM32 based platforms.
- Packaging, Branding and visual content development
- Support in India based Manufacturer identification and local sourcing of components and assemblies.
- Design transfer to manufacturer , Line qualification/documentation.
- Compliance testing and documentation for CE and India Regulatory.



Team Size

20 - 25

Model

Fixed Price

Performance

Complete product development ownership from market research to design transfer for manufacturing

Business Impact

Product to be launched in cost sensitive markets like India, Africa, South America and South-East Asia

Phases

4