Development of ECS for die bonder

GES Global Equipment Services

1 **Problem Statement**
To develop equipment control software for die bonder with E-95 compliant user interface

2 **Uniqueness of the requirement**
The ECS had to control around 10,000 I/O points and had over 200 screens and dialog boxes

3 **Solution delivered to the customer**
A comprehensive control software with modular architecture and E-95 compliant user interface

Customer Profile	Global semiconductor equipment OEM
Industry Segment	Die bonder OEM
Headquarters	Japan
Global Presence	US, Latin America, China, Korea and Singapore

4 **Value Delivered to customer**
Through the engagement with GES, the customer could save around USD 0.5M in the development effort. Standardization of hardware abstraction layer enabled the customer to release new products with minimal effort in ECS

Technologies	C# / C++
Tech Areas	GUI
Engagement	Offshore + Onsite

We initially explored a relationship with GES only to take some minimal level of software support. As we moved on in the project we realized that they had extremely good equipment knowledge and hence we decided to partner with them for the entire development

Development of ECS for wafer inspection equipment

GES Global Equipment Services

1 **Problem Statement**
The develop a comprehensive wafer inspection system with both defect detection and classification capabilities

2 **Uniqueness of the requirement**
The project required an in-depth understanding of the image processing and algorithm development. In addition the client wanted the software to reduce the burden on hardware (costs)

3 **Solution delivered to the customer**
A very comprehensive wafer inspection systems with underline{defect detection and classification capability (capability to capture particle of size 10 µ and scratch of depth 0.2µ)

Customer Profile	Global semiconductor equipment OEM
Industry Segment	Wafer inspection equipment
Headquarters	Japan
Global Presence	US, Latin America, China, Korea and Singapore

4 **Value Delivered to customer**
A 40% saving in development cost (around USD 0.3M)

Technologies	C++
Tech Areas	GUI, algorithms, image processing
Engagement	Offshore + Onsite

GES was successfully able to build this solution in a way that we were able to achieve 40% savings on the estimated development costs. The ability to handle the image processing part effectively was key in having this solution implemented.