Development of application for plane resistance measurement

1 **Problem Statement**
To develop an algorithm to measure resistance between any two connected points in a PCB

2 **Uniqueness of the requirement**
PCB was a multi layer PCB with 24 layers, 2500 points per layer and 1500 interconnects in each layer

3 **Solution delivered to the customer**
A very comprehensive algorithm based on finite element analysis

Customer Profile	Global semiconductor test equipment OEM
Industry Segment	Semiconductor test equipment
Headquarters	Japan
Global Presence	US, China, Singapore, Korea and Europe

4 **Value Delivered to customer**
The solution incorporated was highly memory optimized. The amount of data processed would actually require 1TB of memory space for processing. Optimization techniques were used to accomplish this with 16 GB memory space.

Technologies	C# / C++
Tech Areas	Finite element analysis
Engagement	Offshore + Onsite

GES did an extremely good job in development and implementation of the solution.
The solutions demanded extensive knowledge of physics and GES pulled it off with ease.

Feasibility test of image processing based odometer testing

1 **Problem Statement**
To test the feasibility for developing a image processing based solution for sophisticated odometers

2 **Uniqueness of the requirement**
The component was to be cost effectively developed as it was intended to be integrated as a part of a bigger product

3 **Solution delivered to the customer**
A PoC demonstration that proved the feasibility of building such an application

4 **Value Delivered to customer**
The PoC was developed in a very competent timeframe

Customer Profile	Automotive component and peripherals supplier
Industry Segment	Automotive peripherals
Headquarters	Japan
Global Presence	US and Europe (Germany)

Technologies	WPF and C#
Tech Areas	Image processing
Engagement	Offshore

We really appreciate the ability of GES to have built a concept model for this requirement in matter of weeks.