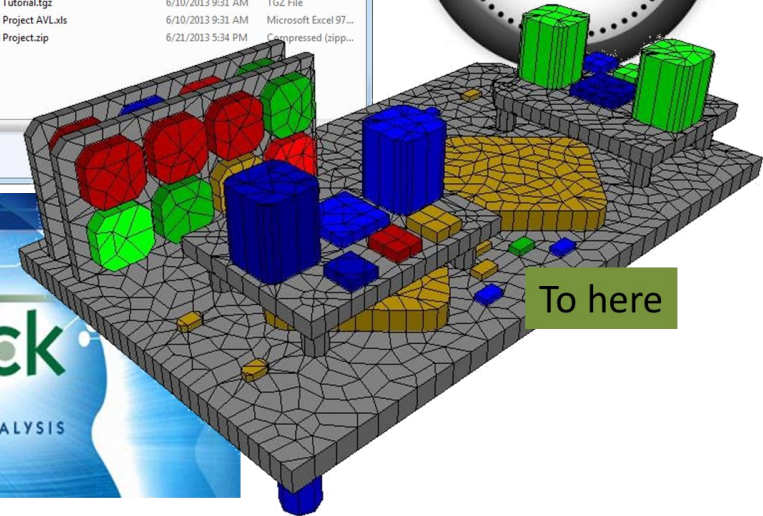
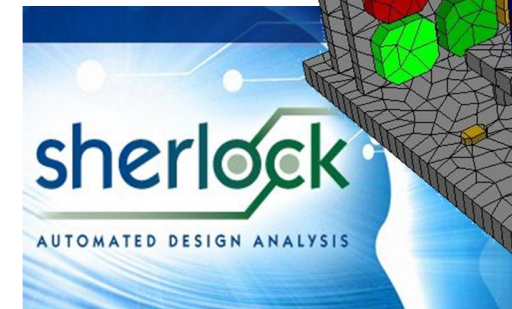
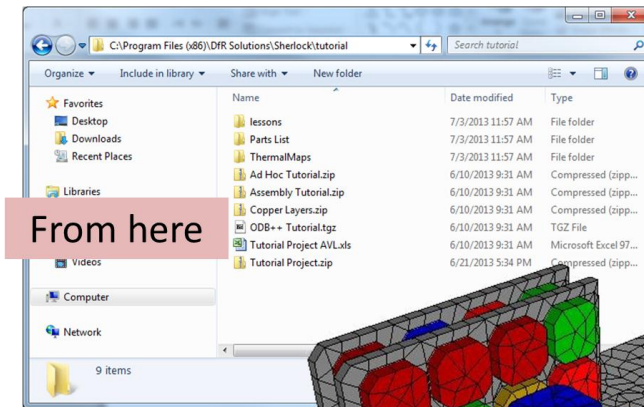


# Sherlock Automated Design Analysis™



To here

# Sherlock has Started a Revolution!



# The Only True Bridge

**ECAD**

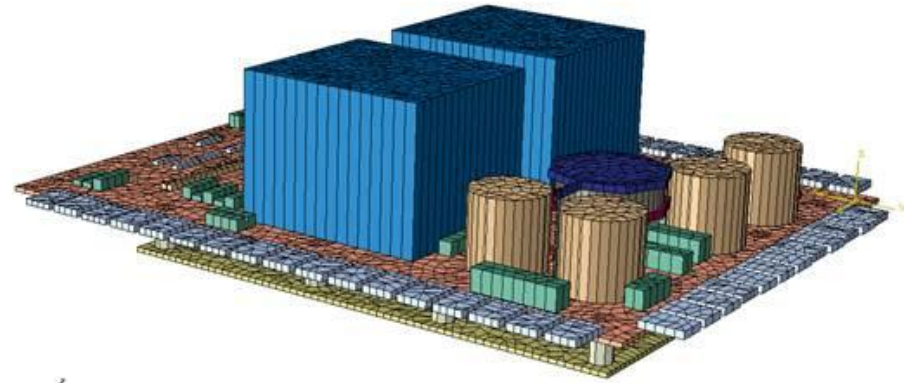
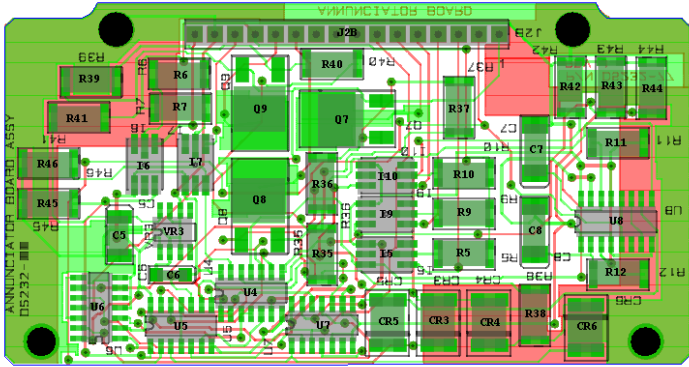


**CAE**

**Sherlock**

**DfR Solutions** 

# ECAD to MCAE



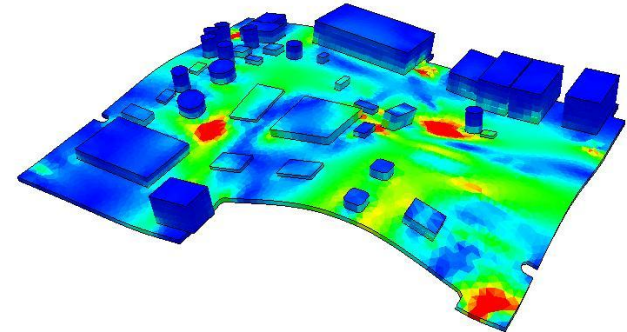
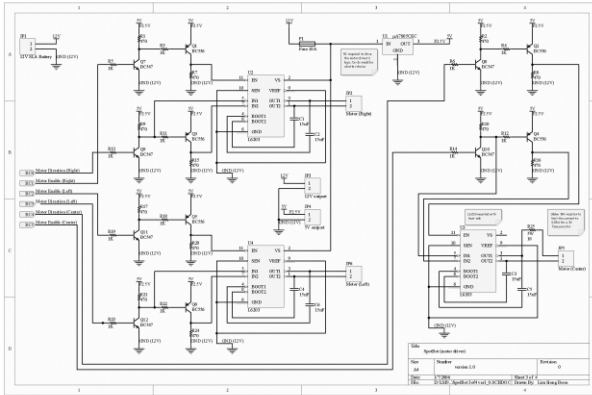
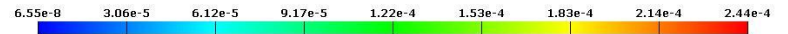
Bill of Material

Part Code	Drawing File Name	Material Code	Family ID	Pin Height	Pin Width	Cut Height	Cut Width	Box
10000 D-###		1	470	1427	477.5	1427		
10002 D-###	10002-0	1	572	570	572	569.5		
1001 D-###		1	478	1623	477.5	1623		
1002 D-###		1	478	1775	477.5	1775		
10021 D-###	10021-0	1	358	570	358	569.5		
10027 D-###	10027-0	1	353	565	353	564.5		
1003 D-###		1	478	1192	477.5	1191.5		
1004 D-###		1	478	1497	477.5	1496.5		
1005 D-###		1	478	1693	477.5	1694.5		
1006 D-###		1	685	1192	684.5	1191.5		
10061 D-###		1	685	1040	684.5	1039.5		
1007 D-###		1	685	1497	684.5	1496.5		
1008 D-###		1	685	1805	684.5	1804.5		
1009 D-###		1	608	607	608.5	608		
1010 D-###								
1011 D-###								
1012 D-###								
1014 D-###								
10151 D-###	10151-0							

Part States of the Selected Part:

Part State Name	Description
Manufactured	Parts are manufactured

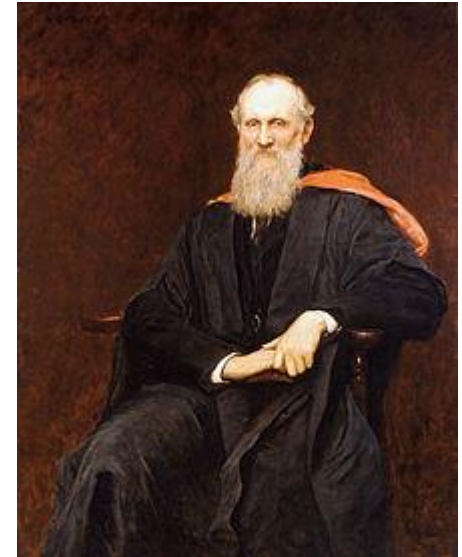
Parts: 2299 record(s); part status: 1 of 2 rec



DfR Solutions

# Motivation

*“...when you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind.”*



# How Do We Currently Perform CAE of Electronics?

## Average User

- Small team, many designs
- Pick and Choose
- Very Simplified Models
- Rules of Thumb
- What Are You Missing?

## Sophisticated User

- Large team, few designs
- Very complex models
- Do You Have the Time?
- Do You Have the Resources?

# How Do We Currently Perform CAE of Electronics?

## Average User

- Small team, many designs

### Sherlock Value Proposition

- Acceleration of model development
- Opportunity to iterate
- Perform quantitative predictions

## Sophisticated User

- Large team, few designs

### Sherlock Value Proposition

- Truer representation of printed board
- Accurate capture of solder dimensions
- Automate predictions

# Engineering Teams

- Limited or no access to CAE simulation and modeling

## Sherlock Value Proposition

- Reduce number of design spins
- Eliminate environmental test failures



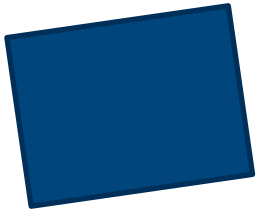
# Manufacturing / Reliability Teams

## Manufacturing

- CAE can improve DfM
- Predict excessive flexure during post-assembly manufacturing activities (ICT, compliant pin, heat sink attach, etc)
- Eliminate expensive and time consuming strain-gauge measurements

## Reliability

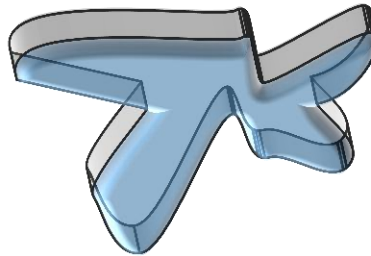
- Perform more accurate predictions
- Pre-HALT
- Drive deeper engagement with other engineering teams



**CONVENTION:**

A WIDELY HELD BELIEF

**All parts must be tested  
the same way, every time**



**DISRUPTION:**

RADICAL NEW IDEA TO  
HELP REACH VISION  
FASTER

**Simulation and modeling  
replaces testing**



**VISION:**

THE FUTURE OF THE  
ORGANIZATION

**Qualifying ground-  
breaking technologies  
seamlessly and safely**