Lean: Applying the 7 Muda to Data Management and Services

A large portion of the life cycle of an order can be non-manufacturing time, and this can create significant inefficiencies before the manufacturing process even begins. This presentation will go over the Lean concept of Seven Muda or “Seven Forms of Waste” as they apply to data management and services. Using examples, the presentation will describe how each form of waste relates to data management and services, how it can be identified and what potential solutions can be.

ABSTRACT:
This presentation will describe how Lean principles, which are typically applied to manufacturing processes, can also be used to improve services processes and data flow. It will draw a comparison between Lean in manufacturing and service processes, how to apply the Seven Muda (Wastes), and tools available to improve service processes.

DALLAS CHAPTER IS PROUD TO PRESENT….

“Lean Manufacturing.”

Friday, Nov. 3rd, 2017

MEETING LOCATION
Aboca’s Italian Grill,
100 S Central Expys #63,
Richardson, TX 75080

11:00 am (doors open for networking) Lunch buffet with multiple entrees, salad and dessert.

To attend, we ask that you RSVP by replying by COB Nov. 1st to this email GTanel@Lbraind.com

AGENDA
11:00-11:30 check-in & Networking
11:30 Lunch Begins
11:45 Meeting Begins, Introductions
Chapter Announcements
12:00 Technical Presentation by the Speaker: Donald Banks
1:00 Technical Round Table Conversation

PRICING: (CREDIT CARDS NOW ACCEPTED on Website)
$20 cash/check, or CCard charge (in advance on web site) for: Members, Guests of Members
$25 for Visitors & non-members
$25 for Credit card charges AT THE DOOR
Bio-

Chintan Sutaria -founder CalcuQuote,

Chintan Sutaria is a graduate of the University of Southern California, Marshall School of Business. He started his career in business technology consulting at Deloitte Consulting and Ernst & Young Advisory working with clients in the manufacturing, aerospace and defense, retail, utilities and beverage industries. Chintan grew up working part-time in the EMS industry, and spent two years at Plano based Precision Technology Inc. as Vice President of Strategy where he oversaw several process and technology related initiatives.

In 2014, Chintan founded CalcuQuote, a software products company focused on the needs of Electronic Manufacturing Services companies. Their primary product is an RFQ Management System which adds significant efficiencies to the end-to-end RFQ process for contract manufacturers. Through CalcuQuote, Chintan has had the opportunity to work with 60+ EMS companies in implementing a better RFQ process and helped several other EMS companies with designing decision centric reporting and ERP implementation.

Upcoming Chapter meetings

Chapter Calendar for 2017:

Nov. 3rd-2017
Lean Manufacturing - Chintan Sutaria

Nov 14-16, 2017
SMTA Certification Program & become a Certified SMT Process Engineer! Dallas, TX

Dec.1st 2017
Member Christmas party

2018 Events

Geek-A-Palooza
Spring/early Summer 2018

April 10, 2018
Dallas SMTA Expo

May 16 and 17, 2018
Medical Symposium at UTD
Presidents Message

Greetings to SMTA Dallas Chapter members and guests.

As we move into the 4th quarter of 2017 we will finish-out strong. We have had another great SMTA-International in Chicago and I hope many of you were able to participate. In this newsletter and on the web site you will find information on the November chapter meeting and the November Process Engineering Certification programs here in Dallas. You will soon learn about our SMTA Members Appreciation Party at the Grapevine Theater on December 1st which is only open for members and their significant other. Part of the value of the chapter is the strong industry relationships we have and the friendships that grow out of it.

Gary Tanel – Dallas Chapter President

Dallas Chapter Membership Rolls— 111 Members !!

We welcome our newest members to the SMTA family:

Robert Smith of Leemah Electronics       Lee Burnette -Aspocomp       Larry Rosson-Individual       Alex Disbrow-NCAB
Tom Lao-ST Microelectronics       Zachary Pitman-Tactical Electronics       Tyler Hastings-Verizon

Corporate Members: 18       Corporate Participating members: 15
Individual Members: 52
Global Members: 5,       Participating Members: 11,
Associate/Student Members: 8       Lifetime members: 2

Dallas Chapter Corporate Member List - July 2017

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Member’s Party!!!
Come join us for an evening of FUN!

You and your Spouse/Guest are cordially invited to our annual Member’s Appreciation Party.

• **When:** Friday, December 1st
• **Where:** Texas Star Dinner Theater,
  816 South Main Street, Grapevine, TX
• **Dinner & Show:** “Dismay in the Manger”
• **Time:** Networking: 7:30pm and
  Dinner & Show starts at 8:00pm
• **Early Bird special until Nov 6th:** $35/person (an $85ea value)
• **Seats are limited to the first 30 tickets**
• **Cost after Nov 6th is $45/person**

Register Here  [this link will be active on the official invitation]

This event is sponsored by your local chapter of the SMTA and is one of the many benefits of being a member of our association.
We look forward to joining you and your spouse/guest for a great social & entertaining event for the holidays.

Bonus
If you get there early that night, you can joins us next door on the patio of the Chill Sports Bar and Grill for complementary appetizers.

Brought to you by the  **SMTA Dallas Chapter**
Page 5 Technology Corner

Understanding the CAM Process - Part 1

CAM vs. Capability

Many new customers have some misconceptions about what a typical Fab shop can and cannot do. There are levels of manufacturing that need to be well understood by the Buyer. The PCB Buyer needs to know where a board will be a good fit based on the parts complexity. How does this happen? How does the PCB Buyer or a contract manufacturer know who is and who is not a good fit based on a myriad of different designs from simple 2 to 4 layer RF parts to high layer count HDI, blind and buried via parts? If the part is of medium complexity, (meaning it can be built by virtually any mid to higher level PCB fabricator) Many times it boils down to things like quote response time. More diligent Buyers may use a tool such as the PCB List through this site where they can compare technology levels side by side and make good decisions about where a part should go. Not all PCB Buyers need a shop that can do 2 mil lines and spaces or laser stacked vias. Sometimes the product dictates a shop of this type must be used, other times, when a given design does not “push” the fabricators limits more fabricators obviously then have an opportunity to show what they can do.

What is CAM?

Not all Board fabricators have the ability to have both CAD and CAM. You may say to yourself, “But a CAM tool should be able to do some if not all CAD functions” and that is true but if you are really getting to the Design level you need to have a design team. Many PCB fabricators do NOT have Design capabilities but DO have the ability to understand the customers’ needs and recognize design attributes.

Let me give you some examples of this from simple CAM assumptions to more complex ones.. Let’s say a design has copper poured right to the edge of the part but is NOT a Z axis or edge plated part, A good CAM department may do a very minimal clip of the metal around the periphery like .003-.004. This is imperceptible to the end user as it appears metal is right to the edge and if the metal would have been left alone there may be burring at final rout. (Functional, but not cosmetically the best ... )Again, this is where a Good CAM person comes into play, when would they NOT do something like a minimal clip for rout? RF launches on an Obvious RF part, Here, we know the intention is to literally have metal right to the edge and that any burring at final rout is acceptable with the customer. This is where their understanding of electrical function comes in as well, that and YEARS of practical experience.

And when I say “CAM” department I mean both PEOPLE and TOOLS as the TOOLS are only as good as the People behind it. I have said many times a good CAM operator is worth their weight in gold.

Likewise there are MANY levels of designers and layout folks. Some with years of knowledge and good common sense layout practices. These are the guys and gals that ask the important questions at the right time, which is to say at the design/layout stage and not after the part gets to the board fabricator.

Karl Doebbert
Prototron Circuits, Inc.
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Special Thanks to the following volunteers!!

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REASONS TO JOIN YOUR LOCAL SMTA CHAPTER

- Do you have something to share such as new technologies or new products?
- Are you new in a sales territory – do you know all the players? Do they know you?

Be informed and involved on the Local Chapter level:

- Take advantage of technical information provided at local meetings Get to know colleagues in your local area
- Network for technical information and get to know companies and people in your local area
- Share information with colleagues on new products and services

THE MISSION OF SMTA

The Surface Mount Technology Association (SMTA) membership is a network of professionals who build skills, share practical experience and develop solutions in electronic assembly technologies and related business operations.

MEMBERSHIP DUES

Participating: $50 - If your company (same location/division) holds a Corporate Membership, it’s employees are eligible to receive the full range of benefits at a discounted price.

Individual: $75 - This membership is designed for individuals who wish to join SMTA to receive all the benefits independent of a Corporate Membership.

Corporate: $450 - A corporate membership in SMTA provides discounts to employees located in the same location/division where the Corporate Membership is held.

Student Membership—$20 The Student/Retiree Membership is available to all full-time post-secondary students and retirees.

HOW TO JOIN

On-line at www.smta.org