

# The Age of the Fabricated Mechatronics Board

## Fall Roadshows

Have you heard of the term Fabricated Mechatronic Boards (FMB)? We suspect not. We coined it for good reason. FMBs have been around for quite some time and are commonly known as PCBs (Printed Circuit Boards). But, as we at Nine Dot Connects have observed, this is rapidly becoming a misnomer with important consequences.

PCBs are not printed, they are fabricated. In fact, the process is subtractive, meaning that copper is etched away to make the traces.

PCBs are not just circuits; they are the medium in which the electronics come together. Since it involves physical space, it is certainly mechanical as well as electrical. Thus it is mechatronic in nature.

PCBs are still boards, though they are certainly not limited to traditional rectangular or square shapes.

Therefore, we are witnessing the advent of mechatronics. Why is this important to you? Because demarcations are used by companies to define positions within the company. We in PCB design have experienced this as the roles of circuit design and layout have become a single position. As the next generation of technology comes to reality in the form of robotics and IoT, the same is eventually going to happen to mechanical and electrical domains.

We at Nine Dot Connects will be on the road throughout the U.S. to bring this unfolding story to you. During this lunch & learn presentation, you will learn how the electronics industry has changed, where it is going, and the tools that are available to enable you to become part of this new age of mechatronics, regardless of your current trade or skill. With change comes opportunity, with opportunity comes growth. The field of mechatronics is open to those who want to expand their horizons.

### **Who should attend:**

Anyone who has a role or interest in PCB / FMB design. For those who are currently immersed in it, this is an opportunity to see where the industry is going. For those new to or interested in the field, it is an chance to see where the opportunities lie.

### **Why should you attend:**

It may surprise you to know that design of this nature is not taught in academia! More so, the industry is in need of engineers who have mechatronic skills and experience, meaning a good balance of electrical and mechanical design. We hope that this free lunch will also provide inspiration for those who are seeking an edge in these fields.



## **ROADSHOW AGENDA (11:30 AM to 2:00 PM - lunch included):**

- 11:30 Registration & Networking
- 11:45 Welcome & Start
  
- **PCBs in Electronics**
  - Major advances in that are still used today
  - The responsibility of the PCB in electronics
  
- **Today's Effort towards Mechatronics**
  - How the design process has changed
  - The erasing of the demarcations
  - Understanding 2nd generation of Mechatronics design
  
- **Mechatronics**
  - The limits of 2D design in electronics
  - How 3D may disrupt the way we design, prototype and manufacture

Here are the dates and locations of the roadshow across USA. We will communicate the exact venue location shortly.

1. September 12, Tuesday - San Diego, CA
2. September 13, Wednesday - Pasadena, CA
3. September 14, Thursday - Santa Clara, CA
4. September 19, Tuesday - Livonia, MI
5. September 20, Wednesday - Minneapolis, MN
6. September 21, Thursday - Bellevue, WA
7. September 26, Tuesday - Burlington, MA
8. September 27, Wednesday - Columbia, MD
9. September 28, Thursday - Huntsville, AL
10. October 3, Tuesday - Tampa, FL
11. October 4, Wednesday - Austin, TX
12. October 5, Thursday - Phoenix, AZ

***Click here to Register –***

***<https://www.ninedotconnects.com/roadshow>***