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Valtronic View

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Company Currents

.01 x .005 Technology Breakthrough for Fish Tracking Study

Valtronic Technologies is excited to be able to offer our customers a new solution for extreme miniaturization projects. Our customer came to us with very rigid parameters because of the size constraints they faced. Valtronic Technologies was their last hope after being told by others it was not possible. By developing, testing and qualifying a new process for placing 0.01 x 0.005 components on a circuit board we were successful in meeting our customer's requirements.

The project did not come without its challenges. However we were excited to pursue this as we knew if we conquered the obstacles, it would open the door to a realm of possibilities. The first obstacle that we had to overcome was that the standard SMD feeders needed to index the parts weren't compatible with such small components. For this Valtronic worked with Automation Technical Services to test a custom feeder that they had just built. This turned out to be a suitable solution. The next obstacle that we faced was that the nozzles which place the components were also too large therefore they had to be modified. Once these adjustments were made we moved on to the actual placement and process qualification.

We used the Quad 4C machine to place the components for a few important reasons. It is a less complex machine and slower operating so it was easier for use to see what was happening and make the necessary adjustments as we conducted our trial. Initially we placed inactive components and once we conquered the obstacles we substituted active parts as the final step of the trial. This went successfully and we were happy to tell the customer we had accomplished what others called impossible.

The project is now fully underway and is being shipped to the customer and is used in tracking the migration of fish. We look forward to taking on additional challenges like this as it allows us to learn and offer new solutions to our customers.

Industry Update

The Shrinking World of Implantable Medical Electronics

The shrinking size of electronics contributes to the growth in implantable device applications. Tiny devices are necessary to be easily implanted into people who suffer from life-altering disorders. There are a multitude of ways to shrink circuitry depending on the application and size restraints. Find out what Valtronic Technologies is doing to meet market demands for increasingly smaller devices.

[**The Shrinking World of Implantable Medical Electronics**](#)

Conference Corner

MD&M West Conference & Exhibition

January 28 - 30, 2008 Don Styblo, Vice President, Valtronic Technologies will discuss the technologies and challenges of "Manufacturing of Miniaturized Medical Devices & Sensors" on Wednesday, January 29th at MD&M West.

Valtronic Technologies will also be exhibiting at MD&M West in Booth 423. Stop by and visit our new booth and learn more about the new Valtronic Technologies. For [free exhibit attendance registration](#) use promo code "BZ".

[For more information on the show](#)

Meet the Staff

Dennis Jeffrey - Operations Manager



What is the most important part of your job?

The most important part of my job is to ensure that we at Valtronic Technologies meet or exceed our customer expectation in both quality and on time delivery as well as to develop a highly skilled and flexible workforce. In order to accomplish these objectives there must be heightened employee training and process controls.

What is a typical day like for you?

My day starts with coordinating the work load in production, and monitoring what needs to be shipped that day. I develop a production schedule based on what needs to be produced in order to meet the customers demand by coordinating with the Production Supervisor, Manufacturing Engineers, Process Engineers, Quality Department, Inventory Control, and Shipping/Receiving. I also have to determine and forecast manpower and machine capacities for upcoming projects and look for ways to increase overall efficiencies.

How did you get into the position of Operations Manager?

I've been involved in Manufacturing for 30+ years at various positions and in various departments. This enabled me to have an understanding on how and why it is necessary to not only have communication between departments but understand the importance of the inter-relationships between departments as well. With this diversified background, I always felt that being involved in manufacturing was my life blood so to speak. I have developed a passion for manufacturing which entails continuous process improvements, developing a highly skilled and flexible workforce, and satisfying our customer's needs.

What is the most important lesson you have learned in your career?

I have learned that you must become a change agent in order to grow in this industry. In my position; my biggest asset is the employees that are responsible for the production of the various products. Therefore the utmost attention should be given to their development as well.

Lastly, what do you look forward to doing that is not work related?

I am involved in the health and wellness industry and enjoy home remodeling.

Tech Check

One Stop Shop

Valtronic Technologies is your one-stop-shop for development and production of your entire product, from microelectronics and mechanical parts to complex systems. This podcast takes a look at what the new Valtronic Technologies is and what it can offer our customers.

[Valtronic Technologies - One Stop Shop](#)

University Relations

Deb Marko Koeberer



Valtronic Technologies is proud of the work we have done with colleges and universities to date and look forward to what the new year ahead holds as we continue to engage students and faculty to discover and share knowledge about miniaturized electronic technologies through collaboration and information exchange.

The past few months have brought us opportunities to meet with students and faculty at Case Western Reserve University and Swarthmore College. In addition, we are eager to continue our budding relationships in the northeast with the University of New Haven, University of Hartford and the University of Connecticut Health Center.

We are actively setting up lectures for the first quarter of 2008. This year we will continue focusing on forming relationships with IEEE (Institute of Electrical and Electronics Engineers) and BMES (Biomedical Engineering Society) clubs and providing them the opportunity to see how what they are learning can be applied to miniaturized electronics and how they can be used in developing products. Valtronic can provide a speaker for chapter meetings or even host local chapters at our manufacturing facility in Solon, Ohio.

If you would like to be contacted about setting up a time for us to visit you please contact Deb Marko Koeberer via email at dmarko@valtronictechnologies.com or 1-888-291-9422 x25.

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