



An Update on News and Trends to Watch

Design Added To ISO Certification



Burton Industries' Engineering department develops a wide range of criteria, such as risk analysis, to ensure quality design standards are implemented into every assembly.

Our dedication to quality solutions here at Burton Industries is what separates us from the rest of the EMS world, making us the right choice for our customers in every aspect of manufacturing. This is why we place the amount of energy we do into ensuring every level of our processes meet and exceed the ISO quality standards. The latest edition to our list of services certified under

our ISO9001 and ISO13485 standard is soon to be Design.

The demand of higher quality services for our customers has been growing as much as our business in general. Whether it be their engineering resources reaching capacity or not enough internal resources to meet their

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Enhancing The Planning: NPI Format Updated

One of the most critical components in making an idea come to life is ensuring that adequate frontend planning is done to establish manufacturability and minimize obsolescence risks. Continually improving upon that upfront planning is key to our success in helping our customers rapidly launch market leading products.

While still effective, our current NPI process was an area that posed a great opportunity to develop a new streamlined approach and enhance the efficiency of the process. We

broke down the entire system to identify the value-added steps and re-assembled those steps into a complete and accurate workflow. With a more systematic format laid out, the NPI Checklist became a focal point of the re-development as it was the one crucial element that encompassed the entire pipeline of communication.

Each phase of the process is better documented and correctly executed to ensure that no details are overlooked. From the

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New Rework Equipment P. 2

links we like:

[Create a Passion For Learning](#)

[Supply Chain and Free Services](#)

[Redesign Engineering Education?](#)

CUSTOM SOLUTIONS

For 35 years, Burton Industries, Inc. has had a long tradition of providing customized manufacturing solutions to OEMs in the medical, industrial, motor control, specialized consumer, security, building controls, defense and professional tool markets. We specialize in high mix, variable demand projects and support the full product lifecycle through end market support services.

QUALITY RESULTS

We've built our business by listening to customer needs and efficiently supporting high mix, variable demand projects. Our manufacturing strategy includes:

- Extraordinary communication with customers
- Teaming with suppliers
- Optimizing test

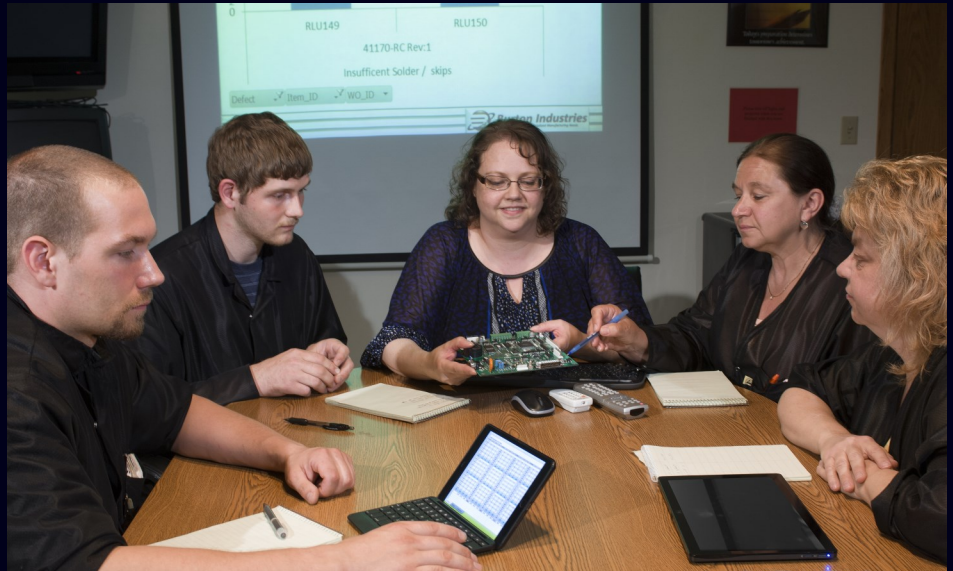
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NPI Updates

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input review upon receipt of the purchase order (PO), to the kickoff, to the pre-production, to the post-production wrap-up, each step requires an evaluation to be completed throughout the entire team. We have now included a single point of contact for NPI coordination to ensure more consistent product development. This ultimately eliminates the confusion and miscommunication that potentially can lead to unforeseen challenges well beyond the start of production.

What does this improvement mean to our customers? With their vision now a reality, our customers can gain the satisfaction of a faster time-to-market and a superior quality product that is a more accurate representation of their vision. Addition-



Team members Paul, Zachary, Monica, Terri, and Sue utilize the redesigned NPI format to collaborate on new manufacturing ideas.

ally, the new NPI system contributes to more efficient production rates and elimination of potential defects, which ultimately helps eliminate hidden costs throughout the product realization cycle.

New Equipment Improves Rework Efficiency

An added piece to our list of ever-evolving manufacturing capabilities is the installation of 2 new in house BGA Rework machines. We recently purchased the PACE IR1000 and IR3000 Rework Stations. The new equipment enables installation and extraction of various components, whether it be simple one zone profiles or more complex multi zone profiles, especially once the boards have already been completely assembled.

The new rework stations allow for precision placement and removal of components even after complete reflow. Our production team has greatly decreased the time spent on completed reworked boards with much higher accuracy and less need for re-verifying placement. With the advancements in our equip-

ment, we now have the capability to handle a very wide range of profiles unique to each customer and assembly. This especially means an increase in repeatability to maintain each profile with very little changeover.

While utilizing the improved optical alignment system, our technicians have logged over a 50% increase of placement efficiency. Component placement and removal is now controlled through a PC based software that develops each unique profile driven from user input parameters. Essentially, this automated process makes it easier for BGA manufacturing at a smaller more detailed scale while eliminating the risk of repeatable defects.

Combining the new technology and more dependable equipment provides our customers with higher quality and more consistent products; an effort that our team has proven our investments to delivering. The rework technology alone gives our production crew a quicker turn around and less time spent on manual methods while maintaining the precision and accuracy expected. This also means less time spent on outsourcing, or relying on 2nd party services, which ultimately adds cost and lead time of deliveries. With these investments being made in house and advancements to our production line, our customers' products truly are being made with the best care and commitment in mind.

Design Certification

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demand for design, our customers rely on an EMS provider to supply the solutions necessary to implement the designs they are looking for.

Our list of capabilities identified through our certification continues to grow as well. Product/PCB Design, PWB Layout, DFM, component selection services, RoHS conversion, and PLM to name a few are examples of our newly certified services. Controlled verification and validation methods for each stage of design ensures the highest level of quality is met. Our team also

develops an output and analysis of risk matrix to guarantee the functionality of each design before production begins. This provides our customers the confidence in knowing their products always meet industry standards.

Some of the more recent improvements to our design phase begin with production planning. Identifying parts to change from through hole to SMT is an example of how production processes were scrubbed to better comply with our customers' DFM requirements. Another example is the consolidation of five current assemblies into one common PCB to utilize a more

retro fit and standardized PCB. This enables the customers to market a more robust design concept and allows for interchangeability and product standardization. A controlled reverse engineering systems is another example of resolving discrepancies such as offshore documentation issues.

While in process, our team is working to complete the final requirements for the Design Certification and is scheduled to receive official accreditation early March 2015.

BI Hosts Annual Food Drive, Holiday Celebrations

Burton's annual food drive was a great way to kick off the holiday season. Each year, food and monetary donations are collected by teammates and donated then to the local Saint Vincent De Paul Food Pantry and the Iron County Food Pantry for those in need of nutritious meals to provide to their families. This year, our team raised over \$2300 in both cash

and food valued donations which were split between the two organizations. To compliment the food drive efforts, our teammates and families celebrated together in the spirit of the Holidays. Well done, team!



Eero, Haley, and Ashley show off their best holiday attire.



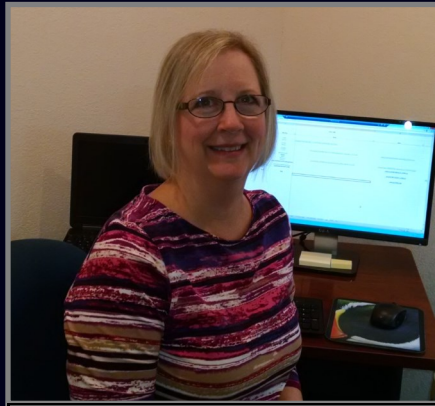
Team members Mona, Ashley, and Terri pose with Iron County Food Pantry volunteers to display some of the annual Food Drive contributions.

Welcome New Team Members!

Thanks to new customers and an increasing list of new orders, our team is growing! Welcome to the new teammates joining in the success here at Burton Industries!

Mary Taylor, NPI Coordinator/
Business Manager

Mary joins our crew as a former teammate who is now back and taking on some new roles. Previously, she spent 4 years with Burton and was integral in obtaining our initial ISO certification. She has over 20 years of QA/regulatory experience in Manufacturing of plastics for medical devices. Her role now will be coordinating all NPI's and managing front end quoting and proposal activities. Welcome back, Mary!



Mary Taylor



Daniel Nagy

Technicians

Daniel Nagy—Electrical Test



Richard Ziblis

Manufacturing Associates

Richard Ziblis

Mackenzie Saubert

Christopher Schwartz



Mackenzie Saubert



Christopher Schwartz

Mona Thelen

Hand Soldering Extraordinaire!

7 years on December 26th

Christine Brees

Director of HR

4 years on October 25th

Luke Fulcomer

IT Associate

3 years on October 3rd

Sean Hooper

Manufacturing Engineer

3 years on October 3rd

Robert Soderman

Rework and Repair Technician

3 years on October 3rd

New Team Members (cont.)

Manufacturing Associates

Debra Erickson

Brian Dary



Debra Erickson



Brian Dary

Machine Operators

Robert Broemer

Travis Wangelin



Robert Broemer



Travis Wangelin

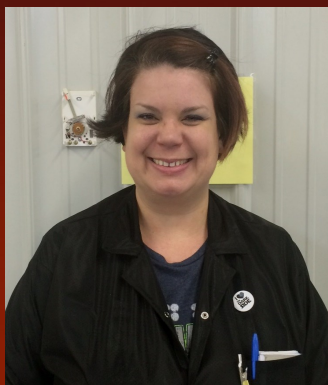
Quality Inspectors

Kathy Longini

Christina Youngberg



Kathy Longini



Christina Youngberg

Burton's Sales Team— Words from the Road

As the Burton Industries' sales team begins to ramp up for what promises to be a busy new year, our teammates on the road offered some good news from the field.

"2015 is shaping up to be a very busy year" as stated by our own Jim Wishall, External Sales. "There has been much talk of reshoring due to supply chain challenges and prices going up."

Reshoring has been a hot topic for our sales and marketing team when it comes to bringing business back to the U.S. and to companies like our own. Supply chain management directs the need for keeping services domestic and the access necessary to drive costs down to produce quicker time-to-market ideas—a goal that Burton continually strives to achieve.

For more information on the national Reshoring Initiative, visit www.reshorennow.org

Connections

Burton Industries, Inc.

Headquarters

PO Box 250

Hazelhurst, WI 54531

Ironwood Division

1260 Wall Street

Ironwood, MI 49938

www.burtonindustries.com

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