



AUGUST ELECTRONICS
CASE STUDY
COLLABORATION WITH
CUSTOMER X

OVERVIEW

Company: August Electronics
Industry: Contract Electronics
Manufacturing
Project Focus: Power Conversion
Module (PCBAs and Module
Production)

KEY PROCESSES

- Prototype production
- Rev-up phase
- Scale-up and testing
- Module production
- Post-mortem analysis

DETAILED PROCESSES

1. Prototype Development:

August Electronics initiated the project by producing prototype boards for a power conversion module for Customer X. This stage involved close collaboration with Customer X to understand their specific requirements and design considerations. The prototypes were built to test the feasibility and functionality of the proposed design.

2. Rev-Up Phase:

Once the initial prototypes were validated, the project entered the rev-up phase. This stage focused on refining the prototypes by managing engineering changes (ECs) and ensuring all documentation was up-to-date. The goal was to address any issues identified during the prototype testing and optimize the design for better performance and reliability.

3. Scale-Up and Testing:

With the refined prototypes ready, August Electronics scaled up the process to prepare for full production. This phase included establishing on-site testing capabilities to rigorously test the production units. The testing ensured that the units met all performance and quality standards before moving to mass production.

4. Module Production:

The project then transitioned from producing PCBAs to assembling the complete power conversion modules. This phase was marked by a witness build, where teams from both August Electronics and Customer X worked together on the production floor. This collaborative effort included hands-on involvement from both teams to ensure alignment and knowledge transfer. Additionally, providing Design for Manufacturability (DFM) feedback to enhance production efficiency and reduce costs.

5. Post-Mortem Analysis:

After the production phase, a post-mortem analysis was conducted to review the entire project. Both teams participated in this retrospective analysis to identify any issues and pain points. This phase aimed to gather insights and lessons learned to improve future projects and strengthen the partnership between August Electronics and Customer X.

INSIGHTS AND LESSONS LEARNED

1. Collaboration and Communication:

The success of the project was heavily reliant on effective communication and collaboration between the teams. The witness build was particularly valuable in fostering a strong working relationship and ensuring that both teams were aligned.

2. Continuous Improvement:

The post-mortem analysis highlighted the importance of continuous improvement. By systematically reviewing the project's successes and challenges, August Electronics was able to implement changes that will benefit future projects for Customer X.

3. Design for Manufacturability (DFM):

The post-mortem analysis highlighted the importance of continuous improvement. By systematically reviewing the project's successes and challenges, August Electronics was able to implement changes that will benefit future projects.

CONCLUSION

The collaboration with Customer X on the power conversion module project demonstrated August Electronics' commitment to delivering high-quality products through meticulous planning, robust testing, and continuous improvement. The lessons learned from this project will be instrumental in enhancing future collaborations and maintaining a high standard of excellence in contract electronics manufacturing.

These benefits highlight the comprehensive value that August Electronics provides to its customers, not only in terms of product quality and cost efficiency but also in fostering strong partnerships, enhancing team capabilities, and driving continuous improvement. This holistic approach ensures long-term success and customer satisfaction, establishing August Electronics as a leader in the contract electronics manufacturing industry.



BENEFITS OF THIS PARTNERSHIP

ENHANCED PRODUCT QUALITY

Rigorous testing ensured that the final product met the highest standards.

IMPROVED TIME TO MARKET

Managing engineering changes effectively and incorporating DFM feedback early, the project timeline was optimized

SCALABILITY

Managing The successful scale-up from prototypes to full module production demonstrated Augusts

RISK MITIGATION

The thorough testing and post-mortem analysis helped identify potential risks early, allowing for proactive mitigation, reducing the overall project risk.