

CIREXX DEVELOPS RIGID-FLEX CIRCUITS TO BRING HEALTH CARE TECHNOLOGY TO MARKET

CLIENT / INDUSTRY

**Medical Equipment
Manufacturer**

PROJECT SIZE

**\$250,000 Project
6 Units**

THE CLIENT

A Midwest medical manufacturer, a few years out of “start-up” mode, with a unique product idea and a bench-top proven design. Their product is designed to address the growing and aging baby-boomer generation with “in-office” care previously unavailable in that mode.

INTRODUCTION

Medical manufacturer developed unique cognition system and needed to take the design into production with several unique requirements:

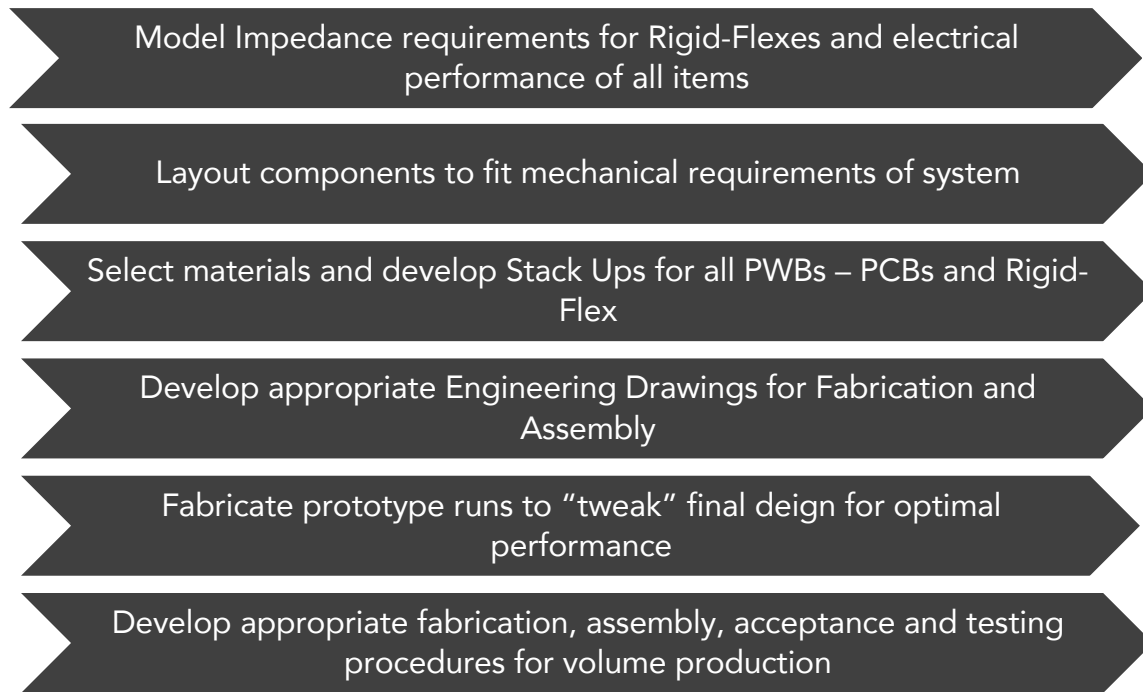
- product adaptability to patient’s head
- signal integrity
- hand held/battery operated electronics system
- Homogenous aesthetics



NEEDS ASSESSMENT

Customer “engineering” was a small and stretched-thin staff of scientists with little experience producing hardware. To bring this to market they needed help in:

- Product design for manufacturability
 - 2 Printed Circuit Board Assemblies in hand held controller
 - 4 Rigid-Flex Circuit Boards in “Head” Assembly
- Head Assembly circuitry depended significantly on signal integrity – impedance
- Appropriate documentation for fabrication and assembly
- Testing and acceptance guidelines



SOLUTIONS

Cirexx quickly manufactured – fabrication and assembly - several iterations of product sets as the customer tweaked the design for electronic performance and mechanical reliability. Cirexx engineers participated in design revisions to ensure that performance requirements were achieved with the most effective and efficient manufacturing methods. The customer now has a production-ready design that can be ordered with minimal lead times as demand for their system is generated.

“Cirexx had the resources – technology, facilities and methods – to respond effectively and quickly to bring a unique medical product to market.”

FINAL OUTCOME

The customer has a production-proven system which they are now successfully taking to market. Each new iteration of the system is much more reliable than the previous and their industry is responding enthusiastically to their product. Cirexx is supporting production requirements as needed by customer demand.

HIGHLIGHTS

- Cirexx took the customer's great idea and made it a producible reality
- Cirexx had the resources – technology, facilities and methods – to respond effectively and quickly
- Cirexx was a "one-stop shop" for a customer with limited administrative bandwidth