



Gaming Cabinet

Project Timeline: 4 Months

DESIGN AND DEVELOPMENT

Reverse Engineering

- Disassembled product, assigned part numbers, and created a complete bill of materials
- Measured and modeled all components in 3D CAD
- Built full 3D assembly and refined design for manufacturability

Prototype Phase

- Built five complete sheet metal prototypes
- Verified fit of custom and off-the-shelf components
- Customer conducted design verification and regulatory testing using prototypes

New Product Introduction

- Performed tolerance analysis on key interfaces
- Completed detailed 2D drawings with defined tolerances
- Verified first articles for all custom and fabricated parts
- Implemented and validated the full production process



OVERVIEW

The system features a welded and riveted sheet metal frame with powder-coated and vinyl-labeled surfaces for a clean, durable finish. It includes a computer-controlled interface with dual touchscreen monitors, remote security access, AC/DC power via DIN rail terminal blocks, and 20 custom cables and wire harnesses for full electrical integration.



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