



CURRENT AND RECENT PROJECTS

- Intra-Aortic Balloon Pump - Belmont Instruments for Bard Cardiac Assist Division. Complete enclosure design for lightweight, portable system to achieve intra-aortic counterpulsation. Provided documentation for injection mold, structural foam, sandcast, and sheet metal parts.
- Hand-Held Network Analyzer - Hewlett Packard. Concepts and "control drawing" specifications for injection molded enclosure with elastomeric overmold. Hand-held tool for installing and maintaining computer networks.
- Film and Video Editing Consoles - Montage Group Ltd. for Philips BTS. Provided complete turnkey product development programs for three new products. Concept, model, design, and documentation phases were followed by procurement and assembly of first prototype and management of production and assembly teams.
- Mobile Workstation - Eaton Corporation. Provided concepts, layouts, and fabrication specifications for this companion product to a large ion implantation system. Currently in prototype phase.
- LAN Server System - New Oak Communications, Inc. Complete sheet metal chassis design for 5U rack-mount device with redundant power supplies, snap-on bezel, accessibility for card replacement. Concept variations, graphics, layouts and a complete drawing specification package were provided.
- Spectrum Analyzer for Metals - Niton Corporation. Provided concept engineering, conducted predesign user focus-group, and supplied mechanical design and manufacturing engineering services for this M.I.T. spinoff company. Resulting product was winner of 1995 R&D 100 Award and finalist in 1994 Discover Awards - Environmental Category.
- Fax Autodialer - Fax International, Inc. In addition to providing cosmetic options, detailed design layouts and production part drawings for this small "black box" - type project, recommended specific domestic injection molding vendors for fast turn-around time, provided quotations, and worked closely with the chosen vendors to resolve manufacturing issues and produce parts in 7 weeks.
- Full-Body Backscatter X-ray Scanner - American Science and Engineering, Inc. Complete enclosure design for large telescoping device to deliver high resolution full body scans. Markets include international airports, and prison facilities where subjects are potentially concealing weapons or contraband. Provided complete design package from concepts to fabrication specifications.
- Surgical Ophthalmoscope - Mira, Inc. Orchestration of mechanism design for focal adjustments, human factors design, and injection molded enclosure design around existing optical system. Provided sketch models, detailed layouts, and manufacturing specifications for this new generation product.
- Exercise Treadmills - Cybex International, Inc. Provided concepts, complete 3D layouts, complete 3D part specifications for sheet metal, structural foam, and extruded plastic parts. This project completes a trilogy of mid, low, and high-end designs for the cardio division of this company.
- Ion Implanter - Nissin Electric Co. Ltd. Development of enclosure concepts including full-width access panels for sides and back and front clean-room facia with user control area. Completion of design layouts, detailed drawing package and assembly of prototype for this semiconductor manufacturing product.