Caltronics Design & Assembly, Inc.

About Caltronics Design & Assembly:

Caltronics Design & Assembly Inc has been designing, manufacturing and supplying printed circuit and other electronic assemblies for over 15 years.

Products and Services:

Electronic Engineering Services

Our engineering experience covers a wide range of disciplines including specifying components, electronic and mechanical design, writing test procedures and programming.

Design Services

- Extensive experience in analog, audio, digital, radio frequency and microcontrollers.
- Our design and assembly operations make us very effective at building and testing the first units of a new design.
- We design chassis, cabinets and devices with moving parts.
-Our firmware design is done in many microcontroller languages for highest performance and lowest cost.
- Programmable Logic Devices (CPLDs, PLDs) - Let us use our experience to get your product in production on schedule.
-Circuit Design and Printed Circuit Layout - We capture schematics, do component placement & routing and generate Gerber files from your design.

Electronic/Mechanical Assembly

- Turnkey Assembly Our equipment and skills enable us to assemble most mechanisms.

- Surface-Mount Assembly - We assemble surface mount PCBs by hand, semi automated or fully automated to fill all your assembly needs from quantity one on up. Our High Mix Pick and Place Machine has dual vision system for fine-pitch placement Our Automated Optical Inspection has top and four side view cameras and a laser inspects solder joints and checks for correct component placement and value.

- Vacuum Encapsulation with Epoxy, Silicones and Polyurethanes - We have considerable experience working with encapsulation products and designing and building molds.

- Cable Assemblies - We build many types of cable assemblies using our wire prep equipment and crimping tools.

- BGA Removal and Replacement - Conceptronics Freedom Series HGR 2000 BGA rework station. We use X-Rays to inspect BGA's or find internal board defects.

Testing Services

-We design and build efficient testing and assembly fixtures to reduce production costs.

-Our environmental chamber is used to test products from -35 to +110 degrees Celsius.

-We test what we build, or provide testing for devices brought into our shop. We also troubleshoot and repair.

Palico Instrument Laboratories (Div of Caltronics)

Products:

Battery Industry: The Model 9100-2 and 2HS low resistance test systems measure the resistance of single or multiple battery separators. The Model 9000-9001 Bath is arranged in a 4-terminal electrical configuration and is constructed of acrylic plastic materials that are suitable for common battery electrolytes

Aerospace Industry: Model 9035 Single Channel Angle Position Indicator System. Available Operator Controlled Auto Zero and portable rechargeable battery operated

Services: Repairs and calibration (traceable to NIST)

Contact Information:

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Company Information:

- Woman Owned Business
- MN Corporation 1995
- DUNS Number: 94-547-9319
- Fed ID # 41-1819106
- CCR Registered
- CAGE Code: 66QE8
- ORCA
- Member NFIB
- Member BBB

NAICS Codes:

- 334418
- 334515
- 541330

Key Employees:

Cindy Houdek, Company Owner and President graduated from The University of St Thomas – Quantitative Methods and Computer Science

Cal Houdek, Company Owner and Chief Engineer graduated from The University of Minnesota – BEE with emphasis in Electronics. Has been in the Electronics industry for over 35 years.

Clients:

- 3M
- Honeywell
- Seagate
- Trane
- Converteam
- Jet Propulsion Laboratories
- National Renewable Energy Laboratory

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