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PALLASITE COMPANY PROFILE

LABORATORY EQUIPMENT & ENGINEERING SYSTEMS

Company Overview

www.arezoukarimian.com/Pallasite

WELCOME TO PALLASITE

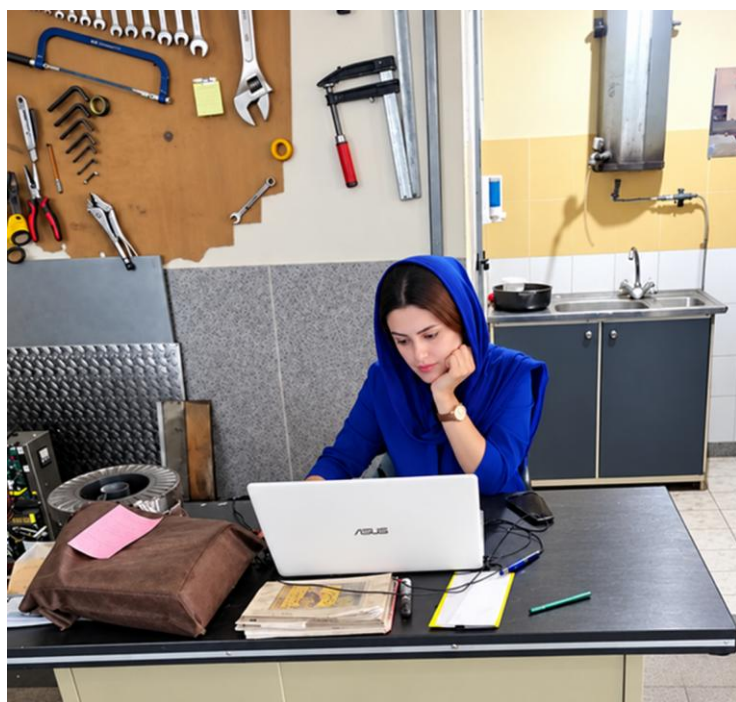
Pallasite was created around a simple idea: research equipment should be designed around the real needs of the experiment. Our work has focused on developing practical laboratory and research systems through hands-on engineering, prototyping, fabrication, and testing.



From heating and mixing systems to thermal-processing equipment and custom characterization platforms, each project reflects an emphasis on functionality, thoughtful design, and reliable engineering.

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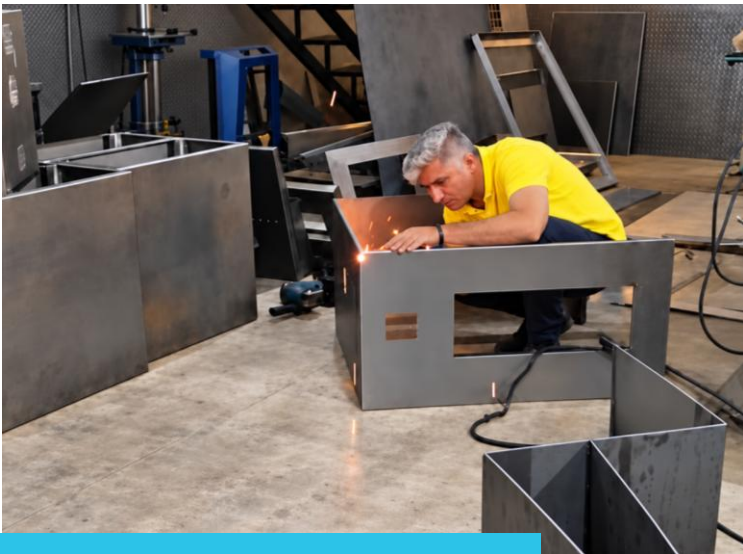
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ENGINEERING WITH PURPOSE

Pallasite approaches equipment development as a complete engineering problem combining functionality, usability, fabrication, control, and practical research requirements into one integrated system.

COMPANY OVERVIEW



CORE FOCUS

- Laboratory Equipment
- Research Instrumentation
- Thermal Systems
- Custom Engineering



WHO WE ARE

Pallasite is an engineering-focused laboratory equipment and research systems brand built around hands-on product development. Its work spans custom experimental equipment, heating and mixing systems, thermal-processing platforms, sensor characterization systems, and application-specific engineering solutions.

Our Mission is to translate research needs into functional, reliable, and thoughtfully engineered equipment through practical design, prototyping, and fabrication.

Our Vision is to create accessible engineering systems that help researchers move more efficiently from experimental concept to working implementation.



STATEMENT FROM THE LEADER



**AREZOU
KARIMIAN JAZI**

CO-FOUNDER AND LEAD ENGINEER

A perspective on the engineering philosophy that shaped Pallasite.



Pallasite grew from a hands-on approach to engineering: when a research problem required a tool that was not readily available, the solution was to design and build it. That mindset shaped the development of Pallasite—combining research needs with practical engineering, fabrication, controls, and iterative testing.

ENGINEERING APPROACH

- Start with the function.
- Design around the experiment.

PRODUCT PHILOSOPHY

Build systems that are practical, understandable, maintainable, and fit for their intended research

CORE VALUES OF THE COMPANY

PRACTICAL ENGINEERING

We prioritize solutions that work reliably in real experimental environments—not concepts that exist only on paper.

INNOVATION AND EXCELLENCE

Design, fabrication, testing, and refinement are treated as an integrated development cycle.

ATTENTION TO DETAIL

Function, controls, materials, usability, and physical construction are considered together as parts of the same system.

CUSTOMER COMMITMENT

NEED-DRIVEN DESIGN

We listen closely to technical requirements and develop solutions around the real needs of each application.

RELIABLE DELIVERY

We focus on practical, functional systems designed to perform consistently in real laboratory and research environments.

CONTINUOUS SUPPORT

We value clear communication, responsive support, and continued refinement throughout the development process.



Our engineering philosophy is simple: every detail should serve the function of the system.

THERMAL & COOLING SYSTEMS



Continuous Thermal Processing

Designed for continuous heat treatment and material processing, integrating a controlled heating chamber with conveyor-based sample movement in a robust laboratory-scale system



FREEZE DRYER

Vacuum Drying System

Developed for laboratory freeze-drying applications, combining a vacuum chamber, sample shelves, and integrated controls for controlled drying and sample preservation.



VACUUM OVEN

Controlled Vacuum Heating

A laboratory vacuum oven developed for controlled heating and drying under reduced pressure, with a durable chamber and integrated temperature-control system.

HEATING & MIXING SYSTEMS



DIGITAL HEATER & STIRRER

Programmable Control System
Combines controlled heating and stirring with digital adjustment of operating parameters for flexible laboratory mixing and thermal-processing applications



HEATER & STIRRER

Integrated Heating & Mixing
Designed with independent heating and motor timing controls, providing convenient operation for laboratory procedures requiring controlled mixing and temperature



ANALOG HEATER & STIRRER

Integrated Heating & Mixing
Designed with independent heating and motor timing controls, providing convenient operation for laboratory procedures requiring controlled mixing and temperature

SANITIZATION SYSTEMS



Wall-Mounted Hand Sanitizer Unit: A compact sanitization system developed for public and institutional use, designed to support touch-minimized hand hygiene in shared environments.

- Touchless operation
- Compact footprint
- Suitable for public spaces

Hand Sanitizer Station-Freestanding: A floor-standing sanitization unit developed for high-visibility placement in entrances, offices, and public areas.

- Freestanding design
- User-friendly access
- Suitable for institutional environments

Integrated Hand & Shoe Sanitizer Station: A dedicated sanitization device designed to support shoe-sole hygiene in controlled-use environments.

- Targeted shoe sanitization
- Practical and accessible design
- Suitable for specialized hygiene settings

SENSOR TESTING & CHARACTERIZATION

Custom Gas Characterization System

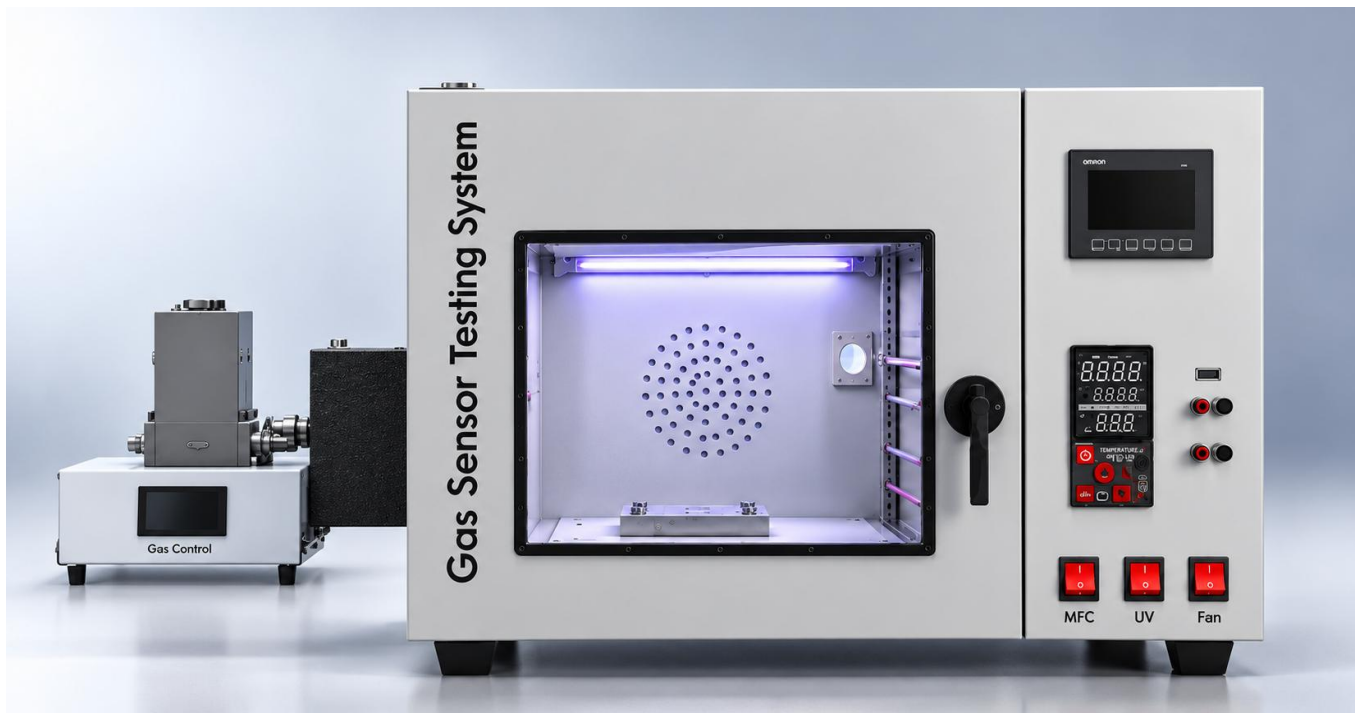


Developed for graduate-level gas sensor research, this custom-built characterization system was designed to support controlled sensor testing within a dedicated experimental environment. The platform integrates the test chamber, operating controls, and gas-handling components into a compact research system.

- Purpose-built for gas sensor research
- Integrated test chamber and controls
- Designed around experiment-specific requirements

FEATURED PROJECT

ADVANCED GAS SENSOR TESTING & CHARACTERIZATION SYSTEM



A custom research platform developed to integrate controlled gas delivery, sensor activation, electrical response measurement, and system control within a single experimental setup.

ENGINEERED

AROUND

THE EXPERIMENT

PURPOSE-BUILT DESIGN

Systems are developed around the specific operating conditions, experimental objectives, and practical constraints of each application.

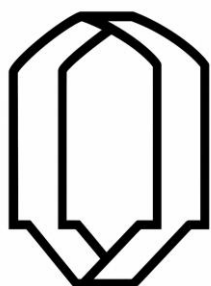
FROM CONCEPT TO FUNCTION

Mechanical design, controls, instrumentation, gas handling, and fabrication are integrated into a complete working system and refined through testing.

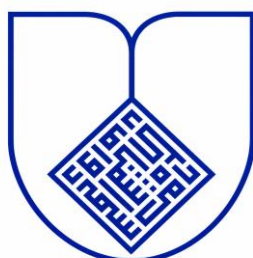
SELECTED CLIENTS



Over a three-year period, Pallasite supplied laboratory equipment and custom-engineered systems to a diverse group of academic, educational, financial, and institutional clients. These projects reflected our ability to respond to different technical requirements with practical, application-focused solutions.



Yazd University



Isfahan University
of Medical Sciences



Shahid Chamran
University of Ahvaz



NOOR
CREDIT INSTITUTION



Educators' Interest-Free Loan Fund



Omid Entrepreneurship Fund.

ENGINEERING IDEAS INTO FUNCTIONAL SYSTEMS



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