PRINCIPAL THINKING, LLC | PATENT PENDING

HOT WELD WARNING LIGHT

Industrial hot-surface awareness, built from welding experience.

NONCONFIDENTIAL PARTNERSHIP OVERVIEW | OCTOBER 2026

THE WORKPLACE NEED

Recently welded metal can remain hot after work ends. Workers approaching the area may not recognize the residual heat hazard. HWL is being developed to add a visible and audible warning near the workpiece.

PLANNED PRODUCT FEATURES

Motion-activated flashing red light and voice alerts; a visual-only mute mode; non-contact infrared temperature monitoring with a laser aiming aid; and a portable magnetic mounting design. Temperature mode is intended to warn on detected motion above a configured threshold and end when the monitored surface cools.

WHY EXPLORE A PARTNERSHIP?

Potential to complement welding equipment, industrial safety accessories and distributor product lines. Intended benefits include greater hot-surface awareness and opportunities to reduce injuries, downtime and manual cooling observation. These outcomes remain objectives for validation, not proven performance claims.

INTENDED APPLICATIONS

Welding and fabrication shops, shipbuilding, manufacturing, plant maintenance, and industrial energy facilities.

CURRENT STATUS

Engineering and prototype development; mechanical housing CAD prepared. Electronics, firmware, prototype assembly and validation remain ahead. No completed pilot, purchase order or certified environmental rating is claimed. The product is not yet available for sale.

PARTNERSHIP INVITATION

Seeking manufacturing, licensing, co-development, future distribution or strategic investment discussions. The current development funding target is approximately $300,000. Commercial terms and production pricing are subject to engineering, validation and agreement.

Jonathan Evans | Owner, Principal Thinking, LLC

Professional Pipe Welder / Product Developer since 2003

jonathan@principalthinking.com | Charlotte, North Carolina | Email preferred