

PRESSURE MEDICAL, INC.

Smart Hemorrhage Control & Tourniquet Technology for Prehospital and Field Care

CAPABILITY STATEMENT

Veteran-Owned Medical Device Company · Sandy, Utah

COMPANY OVERVIEW

Pressure Medical, Inc. is a veteran-owned medical device company developing next-generation hemorrhage-control technology for prehospital, field, and clinical environments. Our flagship platform is a **smart, closed-loop pneumatic tourniquet** that combines MEMS pressure sensing with an adaptive occlusion-control algorithm to apply and hold a precise occlusion pressure automatically — reducing operator workload and error in the most time-critical moments of care.

The platform was designed with direct input from **160+ deployment-experienced medics and clinicians** and is protected by issued and pending U.S. patents. It is engineered as a reusable, self-calibrating system that extends beyond extremity hemorrhage control to a range of clinical applications.

CORE COMPETENCIES

- **Closed-loop pneumatic tourniquet systems** — automated occlusion for prehospital and prolonged field-care hemorrhage control.
- **Smart medical device engineering** — MEMS pressure sensing, adaptive control algorithms, embedded firmware, and multimodal sensor integration.
- **Pneumatic pressure-regulation platform** — reusable self-calibrating control unit, automated cuff recognition, and a manual secondary-occlusion failsafe.
- **Multi-application limb occlusion** — surgical tourniquet, regional-anesthesia limb occlusion, perfusion / compartment-pressure management, and blood-flow-restriction rehabilitation.
- **Regulatory & quality strategy** — FDA 510(k) pathway planning, design controls, and bench verification for Class II devices.
- **End-user-driven development** — clinician- and medic-informed design validated through extensive customer discovery.

DIFFERENTIATORS

- **Automation that targets occlusion within seconds** — closed-loop control standardizes pressure application and reduces reliance on operator technique.
- **Founder-led by a Navy Hospital Corpsman** — built by and for the responders who use it, with a clinical and military advisory board.
- **One platform, many uses** — a single control architecture spanning emergency, surgical, anesthesia, and rehabilitation applications.
- **Protected and licensed technology** — issued and pending U.S. patents, built on a foundation of federally sponsored research and licensed federal IP.

COLLABORATIONS & RESEARCH

Pressure Medical develops its technology in collaboration with leading defense-health and rehabilitation research institutions, including **Naval Medical Center Portsmouth** and the **Human Engineering Research Laboratories (HERL)** at the University of Pittsburgh. The platform builds on prior federally sponsored research and licensed federal intellectual property. Pressure Medical is a member of the **Medical Technology Enterprise Consortium (MTEC)** and actively pursues federal SBIR and research funding to advance the technology toward clearance and fielding.

COMPANY DATA

LEGAL NAME

Pressure Medical, Inc.

LOCATION

Sandy, Utah, USA

UEI (SAM.GOV)

WUZZREW5JC35

CAGE CODE

10CQ6

BUSINESS TYPE

Veteran-Owned Small Business · Small Business Concern · Non-Traditional Defense Contractor

NAICS CODES

339112 — Surgical & Medical Instrument Manufacturing (*primary*)

339113 — Surgical Appliance & Supplies Manufacturing

541714 — Scientific Research & Development Services

PRODUCT SERVICE CODE

6515 — Medical & Surgical Instruments, Equipment & Supplies

DESIGNATIONS

Veteran-Owned

Small Business

Non-Traditional

CONTACT

PHONE

(385) 590-8265

EMAIL

contact@pressuremedical.com

WEB

www.pressuremedical.com