



INDUSTRY: aging well / elder care

FOUNDED: 2017

EMPLOYEES: 3

STAGE: Pre-seed; prototyping

Funds raised to date: \$20K, plus \$55K in crowdfunding reservations; \$28K Innovation grant, \$50K self-funded

VERTICAL: Safety / Wellness

PATENT: U.S. Patent No. 10,897,938; Wearable Device for Fall Injury Mitigation, Jan. 26, 2021

EXECUTIVE TEAM:

Ryan Davenport, CEO, Co-Founder,
Jay A. Davenport, M.D., Inventor, Co-Founder, chief medical officer

ADVISORS:

Tanvi Bhatt, Ph.D., fall researcher,
University of Illinois at Chicago

Lance Silverman, M.D., orthopaedic
surgeon, Silverman Ankle & Foot

Joel Prevost, licensed healthcare
executive and consultant, Prevost
Partners

Brian Kohlbeck, CFO, finance expert

Mae Davenport, Ph.D., professor and
social scientist, University of Minnesota

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VIDEO: Jay A. Davenport, M.D.

discusses the concept for the SAF-T VEST. Click image below.



SUMMARY: [Davenport SAF-T Systems](#) is developing patented wearable technology to reduce the risk of serious injuries suffered in falls. Invented by a Minnesota orthopaedic surgeon, The SAF-T VEST™ is designed to be the most comprehensive fall injury protection system in a newly emerging market category.

PROBLEM: Injuries from falling among older adults are a public health crisis

- Unintentional fall death rates increasing for people 65+ from 2000-2020 (CDC)
- In 2019, more than 34,000 older Americans died due to injuries in falls
- More than 1 in 4 seniors falls per year: One in 5 falls results in serious injury
- Injuries from falls cost \$50B+ per year and continues to increase
- MARKET GAP**—NO viable fall injury protection systems in the U.S. market

SOLUTION: *The SAF-T VEST™*, a comfortable, lightweight “smart” vest, will provide 360-degree fall injury protection. Our reusable, wearable tech relies on proven, off-the-shelf components allowing seniors and others at risk to stay active without fear of a devastating injury from a fall.

- Protects fracture-prone areas including the hips, back, neck and head
- Motion sensors detect a fall in progress; Airbags deploy to absorb impact
- Protects fracture-prone areas including the hips, back, neck and head
- Rapid deflation provides soft landing, digital alert sent notifies caregivers
- Validated by crash protection systems for high-speed activities—downhill skiing and motorcycling

DESIGN CONCEPTS



AIRBAG DEPLOYMENT



COMPETITIVE ADVANTAGE: Our novel solution addresses a critical, unmet need in a \$6M+ total addressable market with a comprehensive fall protection system to preserve health, safeguard independence and reduce costs.

- **We're crowdfunding!** Help speed our progress and have a stake in our success. Investments start at \$100. [Read our legal disclosure.](#)
- Designed by a board-certified orthopaedic surgeon; **Proof of concept developed at University of St. Thomas School of Engineering** (St. Paul, Minn.)
- Engineering plan and market validation informed by voice of the customer interviews, consultations with clinicians, patient safety experts, long-term care providers, fall injury researchers and family caregivers
- **NIH grant application submission expected in early 2023** in collaboration with University of Illinois at Chicago research team
- Designed to provide more injury protection than Tango Belt (hips only) and decades-old, padded hip undergarments
- Estimated manufacturing cost per unit \$500
- **Forward looking financials are projections and not guaranteed.**