



SWAY

- Pressure ulcers (PUs) are crater-like wounds which arise from reduced blood flow to a certain area due to prolonged pressure on the skin
- Despite protocols to prevent their formation, around 11% of nursing home residents develop PUs in a given year
- Caretakers need a simple, efficient device to help reposition patients and prevent pressure ulcers
- Sway is a mobile app and wearable device which work in conjunction to prevent pressure ulcer formation
- Our wearable has a ring of LEDs that help guide inexperienced caregivers in turning the patient to the optimal angle to reduce pressure. Our two-node design ensures uniform turning and



Live Visual Feedback on Patient Position



Turning Guide for Inexperienced Caretakers



Mobile Reminders to Ensure Regular Repositioning



Two-Node Design Promotes Uniform Angle Change

tracks the time between turns to ensure regular repositioning. In addition to sending alerts to remind caregivers to reposition patients after a period of two hours, our companion app provides additional guidance through visual turning graphics and will turn green once the ideal turning angle is reached on both nodes. Finally, a reminder is given to ensure the knees and heels do not touch.