

Portuguese SME offers its technology of pressure monitoring through pressure sensors. Commercial agreement with technical assistance is offered.

- **SCHEDA**
- **APPROFONDIMENTI**

Identificativo proposta: TOPT20200701001

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Portuguese SME specialized in the rehabilitation and physiotherapy areas through design and development of medical devices and other fields such as robotics, wearable devices, and biomedical products is looking for manufacturers of medical devices. The SME intends to offer its technology of pressure monitoring through pressure sensors under cooperation through commercial agreement with technical assistance.

Portuguese SME established in 2012 which designs, develops and implements medical devices. The company is certified under the standards ISO 9001 and ISO 13485 for medical devices. The SME is integrated in a company incubator, allowing easy access to many competences and know-how. The company has a multidisciplinary team with vast experience and knowledge in the areas of mechanical engineering, biomechanics, sensor integration and electronics, data analysis, cloud database services, among others. The company developed a new technology that is a solution for pressure monitoring through pressure sensors. This technology is based in rigid or flexible pressure sensors incorporated into soft or hard surfaces. These sensors allow real-time monitoring of pressure distribution on various applications: - Feet, with a platform or insoles - Chair, with a mat - Bed, using a large area of pressure sensors The company has technical know-how in software and hardware development with pressure platforms for: - Physical rehabilitation (Neurological and Orthopedics) - Podology - Vestibular rehabilitation - Sports medicine This technology acquires information from the sensors and multiple parameters are obtained, such as: - Statokinesiogram (center of pressure coordinates) - Stabilogram (CoP oscillation) - CoP Velocity - Plantar pressure distribution - Weight distribution These sensors have various sizes to choose from. They can be used in numerous applications in the field of medical devices. Some possible applications: - Insoles - Gait analysis Intelligent seating sensor: Detecting - body movement - alignment - centre of balance - incorrect posture at work - non-uniform pressures Preventing - Discomfort - Ulcers - Chronic back pain Pressure platform: - Recognition of poses and movement patterns on various exercises (abs, push-ups, etc.) - Measuring pressure distributions - Objective and quantified training - Step count Mattress sensor: - Detection of prolonged stay in a specific position for bedridden - Prevention of ulcers - Anti-bedsore The Portuguese company is looking for manufacturers of medical devices where the application for this technology can be a competitive advantage. The partner sought should be active in the medical device market. Some examples of partners may include manufacturers of wheelchairs, anti-bedsore mattresses, hospital beds, geriatric furniture and other orthopaedic applications. The company is willing to establish a commercial agreement with technical assistance with manufacturers of medical devices in order to adapt this technology in their products, making them more competitive in the market. The company offers its support on the transfer of the technology, providing the necessary support, establishing a long-term cooperation.

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