"The zensor team has been developing non-intrusive, wearable, wireless health monitors for ten years. The XPRIZE competition has provided the focus to combine vital signs along with leading-edge analytics. The zensor team is passionate about delivering cutting edge technology tested for both accuracy and safety."

- Team zensor

ZENSOR

HEADQUARTERS: Belfast, Northern Ireland, United Kingdom

TEAM WEBSITE: www.intelesens.com

TEAM LEADER: Jim McLaughlin

TECHNICAL INNOVATION

Currently, we have ECG algorithms, respiration algorithms, and motion detection. Out of range events are automatically sent via Wi-Fi to a secure server. We are also working on adapting SpO2 into our current device. The zensor body worn device detects 3-Lead ECG, respiration rate, temperature, and motion, plus blood and urine for a variety of 'wet' tests.

ABOUT OUR TEAM

The zensor team based at Intelesens in Belfast, Northern Ireland, specializes in intelligent wireless vital signs monitoring. The zensor team is led by CTO Prof Jim McLaughlin (Applied Physicist), Principal Engineer Ian McCullough (Systems Development), and Commercial Manager Shannon Wolf Montague (Business). The team has an integrated approach to this XPRIZE and has partnered with international clinical diagnostics

leaders Randox, represented by Dr. Mary Jo Kurth (Biochemist). Clinical expertise has been provided by the renowned cardiology consultant Dr. David McEneaney and the team has a scientific underpinning provided by Dr. Jeremy Hamilton of the University of Ulster.

ABOUT OUR TEAM LEADER

Prof McLaughlin, a physicist, and a Fellow of the Institute of Physics and The Irish Academy of Engineering as well as a Member of the IEEE, he has developed significant initiatives within research, technology transfer, outreach and teaching over these past 31 years. Presently, as a Professor in the School of Engineering at the University of Ulster, he is also the Director of the Engineering Research Institute and Director of NIBEC. His salient disciplines address Healthcare Sensor Systems, Connected Health and related bio-sensing applications. He was recently awarded an OBE for his services to Research and Economic Development in Northern Ireland. He has set up formal collaborations with Cambridge, Surrey, Nanyang, North Carolina State University, the National University of Taiwan and various EU universities. In recent years Professor McLaughlin's over-arching strategy is to develop a strong Connected Health Platform within Northern Ireland (as Chair of the European Connected Health Campus) and the EU. This work involves linking bioengineering and computing sciences with sensor technology developed within NIBEC and thus facilitating clinically-led research initiatives to benefit the healthcare sector. A holder of more than 20 patents, including one for the world's best selling disposable medical electrode, has successfully co-founded a set of spin-out companies including the highly successful Connected Heath company - Intelesens Ltd and more recently SiSaF.

ABOUT THE PRIZE

The Qualcomm Tricorder XPRIZE is a $10 million global competition to stimulate innovation and integration of precision diagnostic technologies, helping consumers make their own reliable health diagnoses anywhere, anytime. Putting healthcare in the palm of your hand.

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