Case Study

Profile of the Company

EziVein is a medical aid designed to enhance the visibility of a vein to reduce the time and trauma for a blood draw of IV cannulation in the 35% of patients who suffer from DVA (difficulty vein access). The disposable device is affordable and user-friendly, and requires no maintenance or mains power. It allows for procedures to be carried out by a single staff member instead of two.

With a BSc in Industrial Product Design, Marie Casey, CEO & Founder of McAS Design Ltd went on to complete a higher diploma in health, safety and welfare at work followed by a master’s in public health at UCC, before working at the city’s Mercy University Hospital. While there, Marie came up with the idea for the device that would take her back to UCC as a participant in the Ignite Programme.

Problem To Be Solved

The objective is to design and develop a vein-detection device that utilises the transillumination approach to detect veins to assist in venepuncture applications. The device is envisaged to be operated by trained medical personnel and to be universally applicable across all demographics. Some of its more novel features include: applicable for single-use, very low-cost materials, a new design for more effective usage.
Innovative Solution

1. A new re-design of the vein-detection device with minimal footprint. It is envisaged to be ultra-thin with similar capabilities to its commercial counterparts. The device has a sufficient power source without being tethered. A polychromatic combination for optimised penetration and contrast.

2. The usability is also improved by enabling a single staff to operate it instead of two which could save in time and resources.

Impact for the Company

Partnership with hospitals and medically trained staff will increase adoption of this portable and cost-effective device to assist in venipuncture applications. This can also be useful in training as well as help mitigate patient frustration in the process.

Client Testimonial

Marie Casey
Owner McAS Design Ltd trading as EziVein

My EziVein development with the Nimbus Technology Gateway has been a wonderful experience. The team have been enthusiastic and keen to deliver a high quality solution from the word go. EziVein will now realise its first serious working prototype accompanied with relevant design and CAD material. EziVein used one innovation voucher with Nimbus and got so much value from it. We will certainly work with Nimbus again. A big thanks to Juan and Andrew for their amazing efforts, constructive feedback and extensive knowledge.