

CASE STUDY



BACKGROUND:



Revoroute Ltd. prides itself on quality and customer satisfaction. As a company built from engineering and mountain bike experience, Revoroute Ltd. can provide new innovative products that are both relevant and reliable.

The concept of Descent Master was thought of by Ewan Clark after having difficulty holding onto the handle bars of his mountain bike for sustained periods of time. Descent Master is a revolutionary product to help any mountain biker gain strength in the key areas that the rider uses to descend on a mountain bike including core abdominal, back, arms and rotator cuff muscle groups.

Descent Master is now refined and ready for market. This will be the first of many innovative mountain bike training products from Revoroute Ltd.

CHALLENGE:

To provide proof of Descent Master's efficacy by analyzing and testing athletes using a prototype in both the Human Performance labs of the University and at the Mountain Bike Centre of Scotland, using the trail network there.

AWARDS:



Winner of the Best Business Collaboration at the Scottish Mountain Bike Awards 2018.

SOLUTION:

Edinburgh Napier University Collaboration

The project set out to provide proof of Descent Master's efficacy by analyzing and testing athletes using a prototype in both the Human Performance labs of the University and at the Mountain Bike Centre of Scotland, using the trail network there. This involved 3 strands to the project. The first was a classic pre-post intervention study investigating the unique benefits of using Descent Master. The second study involved taking a look into vibration loading and vibration exposure characteristics of a mountain bike trail. The data gathered was compared against the vibration data gathered from Descent Master prototype. The final strand was a qualitative study which will use both elite and non-elite focus groups to feedback on the design and function of the prototype kit.

"The collaboration has been hugely beneficial in many different ways that were not expected when first getting in touch with Edinburgh Napier University. The volume of knowledge they have shared to aid the development of the descent master cannot be dismissed as they have been more than happy to share any information that may benefit the development of descent master

Ewan Clarke, Revo Route Ltd

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