TREBUCHET
AR WEAR

Despite our large population, India is trailing behind in terms of growth due to the wasted man-hours spent on simple but time-consuming chores that must be repeated over and

over. We believe that this problem can be overcome by automating both minor and large areas of daily commerce. The fact that we can dramatically reduce the amount of time a consumer spends browsing if we can eliminate the trial and error process impressed us greatly.

"AR Wear" searches for wearables that are a great fit for the user using augmented reality and powerful 3D modeling techniques. It creates a 3D model of any object in the field of vision using three mutually perpendicular cameras. After creating an initial model, it is used to calculate fit and show an AR preview. Unlike other AR-based shopping experiences, we use actual foot measurements to determine how comfortable an item of clothing is to wear. The use of FPGA for parallel computation speeds up the entire process.

In this post-pandemic situation spending a lot of time in shops is a major hazard that could boost the virus's chances of spreading. Displaying and cleaning tested shoes is a challenge for the worker, and many will fail to do so correctly owing to the difficulty. The store may not have the exact fitting shoe size for the buyer; nevertheless, with our solution, they can simply identify the unavailability, and the customer can virtually try on his preferred design to preorder it. The traditional method of determining the size of custom shoes is costly and time-consuming. Within seconds, our product can measure the size and provide dimensions. Even if the shoes are unavailable in the branch visited by a customer, an established shopkeeper with many branches can use our system to digitally display all of his shoes.

Our product improves worker efficiency, enhances seller profits, and makes purchasing more convenient for customers.