

Gideon Ariel, Computernik-Biomechanist

Gideon Ariel is a single-minded problem-solver

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Gideon Ariel: A Pioneer in Biomechanics and Computer Science

Gideon Ariel, a doctorate holder in exercise science from the University of Massachusetts, has been using his expertise in computer science, mechanics, and engineering to solve problems related to athletic performance. As the chairman of biomechanics and computer science for the US Olympic Committee, he recently assisted the women's volleyball team in improving their jumping capacity through computer analysis of their movements.

Dr. Ariel uses computers to analyze and manipulate data related to the complex motions and interactions of human body segments and athletic gear. He has developed several methods to feed coordinates of points on a body into computers, including a scanning device that responds to light and dark areas of a projected photographic image and a sonic pen that uses sound to position body segments.

Dr. Ariel has applied his skills to a wide range of athletic activities through his private company, Computerized Biomechanical Analysis, Inc (CBA). Despite being an adjunct professor of computer science at the University of Massachusetts, he has shifted his focus to commercial projects. CBA has undertaken several projects for manufacturers, allowing Dr. Ariel to recover his investment in facilities.

Currently, Dr. Ariel is working on developing new, large exercise devices and is exploring the potential of computers in guiding athletes on workout routines, diet, and more.

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Below find a reprint of the 1 relevant pages of the article "Gideon Ariel, Computernik-Biomechanist" in "The Physician and Sportsmedicine":

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David Whieldon 109