

Mechanical Engineering
Academy of Distinguished Alumni



William Casey Fox, Ph.D
Distinguished Mechanical Engineer, 2019

BSME, The University of Texas at Austin, 1982
MSBE, The University of Texas at Austin, 1984
Ph.D., BE, The University of Texas at Austin, 1990

Founder, CEO, and President
Metric Medical Devices, Inc. (Metric)

Dr. W. Casey Fox is a native with roots dating back to the earliest days of Texas. Having been a professional athlete (motocross and road bicycling) and mechanic, he entered college late but brought to The University of Texas at Austin deep and broad engineering experiences and a history of entrepreneurship.

After earning his Masters in Engineering, he joined Southwest Research Institute (SwRI) as a Biomedical Engineer. There he used UT-taught instrumentation and signal processing skills to build blood pressure monitors, pulse blood oximeters, and a host of other cardiovascular monitoring instruments.

Under the guidance of C. William Hall, M.D., the Father of Biomaterials, he transitioned his interest into materials and orthopaedics. During his tenure and with the support of SwRI, he earned his Doctorate under the direction of Dr. Ken Diller in the Department of Biomedical Engineering while conducting bone wound healing and osteoporosis research, including working with NASA on the effects of microgravity on bone healing.

Soon, Dr. Fox and his wife, Nancy Fox, began to pursue their entrepreneurial interest and formed BioMedical Enterprises Inc. (BME). Through bone healing research, Dr. Fox and BME brought nitinol internal bone fixation into common use in the U.S. They drove clinical adoption for the shape changing implants that compressed bone while healing, resulting in more rapid and consistent fracture healing.

In this pursuit, Dr. Fox holds over 25 patents, has commercialized hundreds of medical devices, and was awarded Ernst & Young's Entrepreneur of the Year Award in 1998 as well as other awards recognizing his and Nancy's business successes.

After selling BME to Depuy-Synthes-Johnson & Johnson in 2016, he and Nancy focused on Metric so they could continue to advance internal bone fixation implants.

Together, Casey and Nancy have cut high technology medical device companies out of the Texas Hill Country just West of San Antonio. They simultaneously build their businesses, advanced healthcare, and a family.

Hacking their business out of the wilderness while caring for their two children, Garrett Fox and Heather Fox McFarland, is reminiscent of these two Texans' long family heritage. They continue this tradition today with their growing family through their love of the Texas Hill Country.