



DR. HISASHI TSUKAMOTO

CEO & CTO

Quallion co-founder, Dr. Tsukamoto, is one of the world's foremost experts in lithium ion battery technology and serves as Quallion's Chief Executive Officer and Chief Technology Officer. Prior to joining Quallion, he worked at Japan Storage Battery for 19 years. He has more than 30 years of research and management experience mostly in the area of lithium ion batteries.

Dr. Tsukamoto's current research emphasis is on lithium ion batteries for high reliability applications including implantable medical device, vehicles and aerospace. He has more than 11 years of experience in the aerospace cell and battery business alone. Over the course of his career, Dr. Tsukamoto has been published 15 times and has been awarded more than 40 patents.

Notable accomplishments include the following:

- Developed the world's first small type prismatic rechargeable battery for Sony Walkman using Laser welding technology for the first time for consumer application.
- Developed the high electronic conductive new active material LiMgCoO_2 and the world's first 5V vs. Li/Li⁺ positive active material companies, such as:
 - Polymer electrolyte development for Li polymer battery
 - New electrolyte salt development for new Li secondary battery
 - Non flammable electrolyte development for Li-ion battery
 - $\text{LiNi}_{0.97}\text{Al}_{0.03}\text{O}_2$ positive active material for Li secondary battery
 - OH functional group coated natural graphite negative active material development for Li secondary battery
 - Low crystalline carbon coated natural graphite negative active material development for Li secondary battery
 - High temperature stable new Aluminum laminate film case for Li polymer battery