






Michael Jandron, Ph.D.

Technology Specialist and Patent Agent

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Overview

About Michael

Michael A. Jandron, Ph.D., is a technology specialist and patent agent in the Boston office of Fish & Richardson P.C. His practice focuses on patent drafting and prosecution in the robotics, medical devices, and academic research industries. Mike received his Ph.D. and M.S. degrees in solid mechanics from Brown University. He also holds a B.S. in mechanical engineering and a B.S. in applied mathematics from the University of Rhode Island.

Prior to joining the firm, Mike was a mechanical engineer with the Naval Undersea Warfare Center (NUWC) in Rhode Island, where he worked on R&D efforts for the U.S. Navy, particularly for the Office of Naval Research (ONR) and the Defense Advanced Research Projects Agency (DARPA). As a result, Mike was involved in designing, analyzing, and testing undersea vehicles and rockets. His work spanned broad areas such as designing control moment gyroscopes for vehicle control, designing motor vibration isolation systems for noise control, performing structural assessments (buckling, implosion, strength), performing noise assessments, mission planning, and leading underwater high-speed imaging efforts.

Additionally, at NUWC, Mike was heavily involved in basic and applied research, including developing new algorithms for linear solvers, new optical sensors, and leading the physics-based modeling of water skipping spheres, which received press coverage and was published in Nature. Prior to NUWC, he served as an engineering intern at KVH Industries, Inc., focusing on consumer products in telecommunications. Particularly, his work involved design and testing for satellite antenna products.

His Ph.D. work at Brown University was related to mechanical metamaterials where elastic wave propagation properties can be manipulated in soft composites, and his M.S. research at Brown University was related to new computational methods of structural-acoustics simulations. Mike was able to publish this work in various journals and gave many conference presentations over the years.

His efforts helped him win various awards including the NUWC 2017 Best Research of the Year award, and several paid-time-off scholarships from NUWC to focus on his graduate degrees.

Focus Areas

Services

- Patent

Industries

- Academic Research and Medical Centers
- Aerospace and Defense
- Consumer Products
- Electrical and Computer Technology
- Manufacturing
- Medical Devices
- Telecommunications
- Transportation

Education

Ph.D., Solid Mechanics, Brown University (2019)

M.S., Solid Mechanics, Brown University (2013)

B.S. *summa cum laude*, Mechanical Engineering, University of Rhode Island (2007)

B.S. *summa cum laude*, Applied Mathematics, University of Rhode Island (2007)

Insights

Publications

- J. Belden, R. Hurd, M. Jandron, A. Bower, and T. Truscott. Elastic spheres can walk on water. *Nature Comms.* (2016)

- M. Jandron and D. Henann. A numerical simulation capability for electroelastic wave propagation in dielectric elastomer composites: Application to tunable soft phononic crystals. *Int J Solid Struct.* (2018)