

Damir Latypov

Career Summary	Dr. Latypov has extensive experience working in both academic institutions and commercial environments. He has made important theoretical contributions in several scientific fields and has successfully solved numerous applied engineering problems.
Experience	<p>2006-Present Sensor Design Group, LLC., The Woodlands, TX Mathematical Physicist</p> <p>2006-Present Resource Development Partners, The Woodlands, TX Associate</p> <p>2001-2006 Terrapoint USA, Inc., The Woodlands, TX Software Systems Manager</p> <p>1993–2001 Houston Advanced Research Center, The Woodlands, TX Research Associate</p> <p>1992-1993 Texas A&M University, College Station, TX Research Associate</p> <p>1991 Institute for Science, Mainz University, Mainz, Germany Visiting Scientist</p> <p>1990-1992 Institute for Nuclear Physics, Tashkent, USSR Scientist</p>
Key Skills	Strong analytical and mathematical skills. Numerical modeling, modeling of physical systems and phenomena. Extensive experience with finite element analysis for mechanical and electromagnetic design
Education	<p>1991 Ph. D. in Mathematical Physics, St. Petersburg University, St. Petersburg, USSR</p> <p>1984 Masters of Science in Physics, Tashkent State University, Tashkent, USSR</p>
Major Projects	<p>Light Detection and Ranging (LiDAR) Systems Software System Manager</p> <p>Developed processing software packages for airborne LiDAR systems. Specialized in developing algorithms and software for quality control and calibration of the collected data. Wrote technical papers and made presentations at remote sensing conferences.</p> <p>Cryoshim Design Research Associate</p> <p>Developed software package for magnetic shim coil design. Designed a 9-element cryoshim coil system for NMR magnet built by CRIS, Italy. A prototype of one of the coils was built at HARC.</p>

FE Simulation of the Mason Motor

Research Associate

Performed complete theoretical analysis and 3D Finite Element modeling of the Mason Motor.

Block-Coil Dipole for Future Hadron Colliders

Research Associate

In this multi-year project funded by DOE, responsibilities included FE modeling of the strain/stress in the coils of the dipole and quench simulation in the coupled superconducting coils. Other responsibilities included writing reports to DOE and technical presentation for conferences.