

Max Fomitchev-Zamilov

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- Research Interests** Lattice confined nuclear fusion, gravity, electrodynamics, foundations of quantum mechanics
- Expertise** Radiation detection (alpha, beta, gamma, x-ray, neutron), experimental physics (vacuum systems, residual gas analysis, electron microscopy, EDS/XRF, high-current / high-voltage discharges), cavitation, acoustics.
- Education**
- 2000–2001 Moscow Institute of Electronic Technology
Ph.D., Computer Engineering
- 1997 - 1998 University of Tulsa
Ph.D. Candidate, Computer Science
- 1992 - 1997 Moscow Institute of Electronic Technology
M.S., Computer Engineering
- Experience**
- 2015 - Present Maximus Energy Corporation (www.maximus.energy)
Founder & President
- Developed turn-key neutron and gamma spectrometer product line
 - Conducted numerous nuclear science experiments
 - Published neutron / gamma detection and experimental nuclear science blog
- 2010 - 2015 Quantum Potential Corporation
CEO & President
- Developed heavy crude oil upgrading technology, constructed \$1M demo plant
 - Developed cavitation-induced fusion proof-of-concept apparatus
 - Developed novel epithelial cancer treatment medical device
- 2006 - 2013 Pennsylvania State University
Associate Professor of Computer Science & Engineering
- Educated ~3,500 students in C++ programming and Software Engineering
 - Recipient of 2013 Faculty Teaching Award
- 1997 - 2006 SPR / Oden Insurance Services / Thomson Reuters
Software Engineer
- Developed Oden Web-Based Policy Terminator (www.odentp.com)
 - Has shown that cookie-tracking technique overestimates unique visitors by a factor of 10 when compared to unique IP addresses
- Select Patents**
- U.S. Patent # 9,242,041, *Method and apparatus for cancer treatment*, 2013
- U.S. Patent # 8,386,599, *Method and system for estimating unique visitors for internet sites*, 2009

U.S. Patent #6,167,758, *Method and apparatus for generating ultrasonic pulses with a specified waveform shape*, 1998

Select Books

Enterprise Application Development with Visual C++ 2005, Charles River Media, 2006

Select Papers

Fomitchev-Zamilov, M., Neutron Radiation Measurement Best Practices, DOI: 10.13140/RG.2.2.36651.05929, 2020

Fomitchev-Zamilov, M., Gamma Radiation Measurement Best Practices, DOI: 10.13140/RG.2.2.12233.16486, 2020

Fomitchev-Zamilov, M., Experimental Study of Neutron Formation in X-Ray Discharge: Is There a Challenge to the Standard Model?, DOI: 10.13140/RG.2.2.26960.33287/1, 2018

Fomitchev-Zamilov, M., Novel upgrading technology cuts diluent use, capital costs, *Oil & Gas Journal*, 113(2), 2015

Fomitchev-Zamilov, M., Cavitation-Induced Fusion: Proof of Concept, arXiv:1209.2407, 2012

Fomitchev-Zamilov, M., Dark Matter and Dark Energy as Effects of Quantum Gravity, arXiv:1009.1369, 2010

Fomitchev-Zamilov, M., Rotational Drag Force: A Viable Alternative to Dark Matter, arXiv:1009.1360, 2010

Fomitchev-Zamilov, M., How google analytics and conventional cookie tracking techniques overestimate unique visitors, *WWW 2010*, 2010

Languages

Russian (fluent), English (fluent), German (basic)