



Expert Questions and Answers by Expert

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ExpertEV 107558

Technology professionals as a group do many different things. Please describe the subfields of technology in which you practice.

Medical informatics - computers in medicine, at the hospital level (electronic medical records) and medical devices (imaging, communications, embedded systems, telemedicine, medical robotics, medical simulation).

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Within your field, what is the most significant recent technical development?

Continued increase in utilization of electronic medical records.

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What is the most significant challenge within your specific subfield?

Usability of technology and validation of efficacy.

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With what technology products and systems are you most familiar?

Electronic Medical Records Medical Electronics Robotics Medical testing systems Modeling and simulation Adaptive training Adaptive testing Medical device IP

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Describe your education, training, certification, and licenses related to your fields of technology.

Medical Doctor (MD) Post-Doctoral Fellowship in Medical Informatics (Harvard) Hold several patents in medical simulation

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In what specific industries and in what capacities do you practice your expertise? Include consulting experience.

Co-Director, Medical Informatics Program, Harvard/MIT. Teaching, HST Division of Harvard Med/MIT Chief Scientist, Kurzweil Technologies (medical modeling and simulation) Chief Medical Officer, Kurzweil AI (voice recognition EMR system)

President, Archetype Technologies, Inc (clients include New England Journal of Medicine, American Board of Family Medicine, Harvard Medical School, numerous EMR vendors, law firms, and medical device/EMR companies, DoD/US ARMY)

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List all related professional associations to which you belong.

Fellow, American College of Medical Informatics

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Briefly describe the research in your specialty and related fields that you have performed in your career.

Process management Adaptive testing and training AI and quality assurance

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List no more than 25 of the most recent or significant published peer-reviewed works regarding technology that you have authored or co-authored.

Author of 24 books, 500+ articles, 12+ commercial software packages. Editor-in-Chief two journals (electronics/robotics). Recent book: Bergeron BP (ed.). Developing a Data Warehouse for the Healthcare Enterprise: Lessons from the Trenches. Chicago, HIMSS. 2007. (HIMSS Book of the Year).

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Provide a list of previous cases where you offered expert testimony (testimony includes depositions, reports, etc.).

1. Medical device telemetry. Invalidity and non-infringement analysis for a Fortune 500 company. Device analysis, code analysis. Invalidity and non-infringement reports. Approx 45 patents. Representing Olympus Medical for Kenyon and Kenyon, NY. Settled. 2. Electronic Medical Record system. Invalidity and non-infringement analysis for a top 20 EMR company. Interface analysis. Code analysis. Non-infringement report. Approx 25 patents. For Pepper Hamilton, Boston, representing NextGen. Settled. 3. Home-based Medical Telemetry system. Invalidity analysis for a top 10 home monitoring company. Approx 45 patents. For Bell Boyd Lloyd, Chicago, Representing Bosch. Settled. 4. Electronic Medical Record system. Invalidity analysis for a top 10 EMR company. Approx 20 patents. For Shook Hardy & Bacon, San Francisco, representing Cerner. Settled. 5. Electronic Medical Record system. Additional invalidity analysis for 15 patents. For Shook Hardy & Bacon, San Francisco, representing Cerner. Settled. 6. Patent portfolio analysis for medical devices. Work directly with Alcatel-Lucent. To date, approximately 500 patents reviewed in detail from a portfolio of 30,000 patents. Ongoing since 2009. 7. Patent reexamination testimony, USPTO. For Sterne Kessler Goldstein Fox, representing CSI. Settled. 8. Medical Device. Infringement and invalidity. Meredith & Keyhani, representing MedGraph. Ongoing.

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What has been your most significant contribution to your field of expertise?

Innovative software. Numerous publications/teaching.

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List any awards or special recognition you have received related to your expertise.

HIMSS Book of the Year (2008) Tech. Communications award (1998) Fellow, ACMI (1990) First award, National Library of Medicine (1988) Numerous editorial boards. Significant grant support (1988 - present) for sponsored research

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