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Curriculum Vitae

I am currently the Technical Director of the Bioengineering Initiative at the Sheikh Zayed Institute for Pediatric Surgical Innovation at Children's National Medical. I received my Bachelor's and Master's Degrees from Duke University, and completed my Ph.D. at the University of Texas at Austin in 1990. My dissertation research involved software development and computer graphics for robotic manipulators.

After several years working in technology position at NASA (North American Space Administration) and the DOD (Department of Defense), I moved to Georgetown University and in 1996 as an Assistant Professor, which marked the start of my medical research career. I was promoted to Associate Professor in 2001, and full Professor in 2010. When I left Georgetown last year to move to Children's, I was the Director of the Information Systems and Imaging Sciences (ISIS) research center, with almost 100 full-time employees.

I am an Associate Editor of the IEEE Transactions on Information Technology in Medicine, and also serve on the editorial board for the journal Computer Aided Surgery. I have served on numerous conference committees and recently was the co-chair of the SPIE Medical Imaging Meeting.

For the last ten years, I have worked in the field of computer-aided surgery, focusing on developing technology for minimally invasive procedures. I am personally familiar with most of the leaders in a wide range of research disciplines, including robotics, modeling, visualization, and computer-integrated surgery. I am the sole author or co-author of over 50 scientific publications, including over 15 peer-reviewed journal articles, 35 peer-reviewed conference papers, two book chapters, one U.S. patents, and one edited book.

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