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My background is in engineering and medicine. After graduating with a degree in Chemical Engineering from Auburn University, I studied medicine as a fellow of

the Medical Scientist Training Program (MSTP) at Johns Hopkins Medical School where I received both M.D. and Ph.D. degrees. My Ph.D. is in Biomedical Engineering, where I specialized in cardiovascular dynamics, training with Dr. Kenji Sunagawa in the laboratory of the late Dr. Kiichi Sagawa. Immediately afterwards, I completed a fellowship in research cardiology at Albert Einstein College of Medicine before additional training as a Japan Society for Promotion of Science (JSPS) Fellow at Kyushu University. I then took academic faculty positions in Biomedical Engineering and in Medicine at Vanderbilt University while simultaneously completing a residency in Internal Medicine at Vanderbilt Hospital. Also, during that time, I helped train astronauts like Dr. Chiaki Mukai for the Neurolab Spacelab Mission. I likewise collaborated with The National Cerebral and Cardiovascular Center as a Visiting Researcher supported by the Science and Technology Agency of Japan. Following academia, I entered Pharma – first Merck, then Pfizer. During my 18 years at Pfizer, I worked in various capacities including Field Medical Director, R&D, Business Development, and Medical Affairs. In Pharma as in academia, my passion for modeling and simulation was evident throughout my work and extended across therapeutic areas. I am credited with creating several Pharma modeling platforms including The Lyrica Virtual Lab, The Neuropathic and Neuropathic-like Pain Virtual Lab, and The Pulmonary Vascular Disease Virtual Lab. Finally, I am a Fellow of the American College of Cardiology (FACC), and I am very interested in heart failure, pulmonary hypertension, and in medical devices.