Carter M. Armstrong, Elve Inc., received his undergraduate degree in physics from Rutgers University and his PhD in nonneutral plasma physics from the University of Maryland. His career spans academia, government laboratories, and industry, including positions at North Carolina State University and the Naval Research Laboratory, where he led research on fast-wave coherent radiation sources such as gyro-TWTs and gyro-klystrons. He later held engineering leadership roles in industry at Northrop Grumman and L3Harris Electron Devices, contributing to the development of both fast-wave and slow-wave devices, including traveling-wave tubes, klystrons, and microwave power modules. Armstrong's work bridges plasma physics, device engineering, and system-level considerations, with a focus on how application requirements shape vacuum electronics technologies and their integration into modern RF systems.