



## ***David C. Nicholas***

**B.S., M.S., Ph.D., Electrical Engineering, 1967, 1968, 1971**

David C. Nicholas earned his B.S., M.S., and Ph.D. in electrical engineering at Iowa State. As a graduate student, he developed and patented a filler and synchronization mechanism for Huffman codes, which was later used in FAX machines. Nicholas' filler and synchronization scheme for digital data is incorporated into the CCITT standard for Group 3 facsimile. His patent was assigned to the Iowa State University Research Foundation and has been licensed to all but one of the major FAX makers. It remains the top income-producing technology from Iowa State. Nicholas joined the Collins Radio Company (now Collins Aerospace) in 1971, where he held engineering and management positions until his retirement in 2009. He worked on the design of telephone switching systems, mobile satellite communication systems, avionics systems, and engineering continuing education programs. He holds 16 patents and was inducted into the Iowa Inventor's Hall of Fame in 1992. The ISU David C. Nicholas Professorship in Electrical and Computer Engineering was established in 1997.

**2022 CLASS**