

KØCQ. Licensed since 1955, amateur extra since 1958. First Phone, second telegraphy and ships radar commercial licenses also from 1958. BSEE, Washington U, St. Louis, 1963, MSEE, Iowa State, 1967, Phd, Iowa State, 1976. Employed at Collins Radio in the high power transmitter department 1963 to 1966. US Army 1967 to 1969. Self employed since 1970 consulting in electrical and electronics including products failures, custom designs, electric shocks and fires. Built the first computer in Iowa for student use, called GJILDA. Its back for repairs. Graduate work was in low speed data communications over the secondary network. Work branched into weather display and analysis programs that still need maintenance attention. Farmed on the side from 1989 to 2008, mostly retired since 2008.

President Washington U radio club a year, president Story County Iowa ARC, 21 years, secretary a few years before that.

On 2m from 1956, 432 from 1970, 10G with gear that really works from 2009. 1296 for some years in between, then 220. Demonstrated effects of path blockage on microwave circuits at 9.8 GHz for the Engineers Day open house at Washington U in 1963. Still have the antennas built for that.