

## CV of RALPH L. MILLER

Born: March 11, 1907

Kansas State University

BS Electrical Engineering – 1929  
Phi Kappa Phi, Sigma Tau

Bell Telephone Labs. (Bell System)

1929 – 1973, Supervisor, Proj. Eng. (Junior X)  
Consultant, Involved in X System from beginning.  
Fellow – Acoustic Society of America  
A Bell Labs inventor with over 40 patents including Quartz Osc. Freq. Divider, N-ary Digital (Joint)\*, Junior X\*, Picture Phone (Joint)

Author – System X (Section) – A History of Engineering and Science in the Bell System – National Service in War and Peace, 1925 – 1975.

\* NOTE - patents: N-ary, and Junior X held in secret files for 30 years, other names for System X were SigSaly and Green Hornet.