

James P. Holm
Voice/FAX: 269 ...-....

.... Signal Hill Dr.

Kalamazoo, MI 49009
76447.2520@COMPUSERVE.COM

(Retired and inactive) ... Providing short-term project engineering and project management assistance.

Electronics/Electrical Engineer – Heavy industrial systems such as: **1**, Power distribution, data and communication networks, lighting, security, safety, X-10 controls, and entertainment systems, **2**, Alternative power generation and distribution systems, **3**, Virtual Acoustic simulations and auralizations of auditoriums.

Classical Music Recording, Editing and CD Mastering Engineer - Specializing in solo and chamber music.

Experience:

Corporate Industrial Electronics Consultant - **The Upjohn Company [Pfizer]** - Kalamazoo, MI - 1969 to 1996

Heavy Industrial Electrical Distribution and Energy Management Systems - Computers & Programmable Controllers
Life Safety Alarm Systems - Industrial Public Address, Fire and Facility, Coded Strobe Light Systems
Intrinsically Safe UL Electronic and Explosion-Proof Electrical System Standards author for Upjohn
NEC, NFPA 72 & 101 familiarity, some UL & CSA safety standards and OSHA & MIOSHA life safety
DEA Security Electronics: Cardkey Access Control, Seismic, IR/Radar, Acoustic and Sneaky alarms
Designed and built a Reverse Sub-Split Cablevision system for wide area and covert TV surveillance
Vibration & Acoustics Problems & Equipment Failure Prediction using Acoustic Signature Analysis
Auditorium Acoustics (TEF)/Intelligibility (RA STI) and associated Optical, Video and Sound Systems
Conceptualized and built the Upjohn Fiber Optic Video Conferencing Network
Designed and built the Upjohn Telephone Central Switch/Cable Backbone Physical Plant
Two-way Trunking, Repeater and Pager Radio System – Provided corporate liaison with the FCC

Electronic Engineer – Automotive Emissions Test Instrument Design - **Kal-Equip Co.**, Otsego, MI - 1969
Electrical Designer - Schools & Institutions - **Trend Associates (A&E)** - Kalamazoo, MI - 1968
Broadcast Engineer - **Radio Station WKPR** - Kalamazoo, MI - 1968
Electrical Designer - Schools & Institutions - **L. C. Kingscott Associates (A&E)** - Kalamazoo, MI - 1967
Electronic Designer – Environmental Simulator Controllers - **Sherer-Gillett Co.**, - Marshall, MI - 1964
Electrical Designer – Utility Power Plants - **Commonwealth Assoc., Inc. (A&E)** - Jackson, MI - 1956 to 1960
Radio Technician SpE4. - Military Radio Repair - **Michigan National Guard** - 1956 to 1962

Professional Achievements:

Professional Engineer - Control System Engineering - California # CS-400 (1976)
Member – National Society of Professional Engineers /MSPE, IEEE, AES, PCIA
Senior Member Instrument Society of America (1976), Certified Energy Engineer - AEE (1982)
Federal Communications Commission First Class Commercial Broadcast License
1995 Upjohn Award Winner (Engineering Division)
Recordist - Kalamazoo Symphony Orchestra, K Concert Band, WMUK, K College, Fontana, Bach Collegium
Computer Skills: The usual plus DesignCAD, Autocad LT, AcoustaCAD, EASE/EARS (Acoustical engineering)

Patent 3,588,355 - Stereophonic Loudspeaker Array - Assigned to The Jensen Loudspeaker Company
Patent 3,734,663 - Automatic Tablet Machine Control - Assigned to The Upjohn Company
Patent 4,044,227 - Television-Based Bar Code Reader - Assigned to The Upjohn Company
Patent 4,172,524 - Television-Based Liquid Inspection System - Assigned to The Upjohn Company

Commercial Training: Programmable Controllers, UL/NFPA Life Safety Systems and Consultant Seminars

Education:

Study of microcomputer assembly (Native) languages. - Western Michigan University - 1978
Bachelor of Science in Electrical Engineering - Western Michigan University - 1969
Two Year Electronics Technology Degree - Western Michigan University - 1963

References: Furnished upon request.