VESA PYKALA

10127 Valencia Dr.
Houston, TX 77013
Phone: (832) 466 - 8868
Email: vpykala@hotmail.com

EDUCATION

Technical Institute Of Helsinki, Finland
(1980)
Bachelor of Science Degree in Automation Engineering

EXPERIENCE

SER - Jobs for Progress of the Texas Gulf Coast, Inc. - Trainee
(February 2016 – May 2021) Houston, Texas

Database design with Microsoft Access
IT Support

USAi Labs - Club Member
(January 2016 – Present) Houston, Texas

Design and upgrade Robot Rover with Ubuntu Linux and ROS

St. Francis Charities - IT Volunteer
(October 2012 – Present) Houston, Texas

Website design with Adobe Dreamweaver 5.5 and WordPress
Document creations
Database design with Microsoft Access
IT Support

Open Door Mission - IT Manager
(2005- June 2012) Houston, Texas

Database Design with MS Visual Studio 2008 & MS SQL Server 2005
Implementation of MS Office 2007
IT Support

Open Door Mission - Database Manager
(2000-2004) Houston, Texas

Database design with Microsoft Access for daily registrations of clients.
PC support for   Mission personnel
Microsoft NT & 2003 Server installations
Mission website design with Adobe Dreamweaver 2004

Sciontech International (Self-employed) - Systems Engineer
(1997-1999) Houston, Texas

Software design of Geonav's Navtools for Windows
Software design of Geonav's Cruise Ship Passenger Information System

Geopros Oy – Service Technician (Part-time when needed)
(1990-1996) Helsinki, Finland

Serviced proton magnetometers, seismographs,
Geoinstruments magnetic susceptibility meters and fluxgate magnetometers.

Elesco Oy - Systems Engineer
(1986-1996) Helsinki, Finland

Responsible for the systems engineering the following projects:
Hardware design of a detector to search underwater metal objects.
Fitting out of all instrumentation on two seismic vessels.
Design digital key encoded radio scrambler for use with existing military radios.
Software and hardware design of a naval minesweeping combat control system. .
Hardware design of a naval subsea magnetic and acoustic measuring range.
Many of these projects required installation, commission, training and trouble-shooting at sea on the client's vessel.
PC and network support for the company personnel.

Geoinstruments Ky (currently Geopros Oy) - Design Engineer
(1985 - 1986) Helsinki, Finland

Designed a microprocessor controlled magnetic susceptibility meter for use in mineral exploration. Designed and built a triaxial fluxgate magnetometer for a deep-sea research submarine. Designed and built fluxgate magnetometers at the sensor level. These were used in various military and medical applications. Serviced portable PC based seismographs. Designed borehole logging probe to test the rock's suitability for a long term storage of nuclear waste.

Stromberg Oy (currently ABB) -   Power Electronics Test Technician
(1982-1984) Helsinki, Finland

Responsible for the test of microprocessor control systems for AC and DC motors. Also prepared and gave lectures on microprocessor theory and programming at the company's technical training school.

SYSTEMS FAMILIARITY LIST	Computer Software: Pascal, Visual Basic 3&5, Visual Basic for Applications, Visual Basic.NET 2008, MS SQL Server 2005, Assembler, MS Office, Adobe Dreamweaver, Adobe Photoshop, GIMP Image Manipulation Program, Pinnacle Studio Video Editing Program, WordPress Operating Systems: MS DOS, Windows 3.n, Windows 95/98/NT/2000/XP/7/10, Windows NT/2003/2008 Server, Ubuntu 20.04, ROS Foxy Fitzroy Hardware: Desktop, laptop, server, printer installations. Network switches, -firewalls,-routers, -cabling installations. Wireless networking installation. Raspberry 4, Jetson Nano