

Belkiskumar

Graduate Engineer with 8.8 years of experience in LabVIEW Application Software Development For ATE, SPM, HIL Simulation, FPGA, Multisim Simulation, Co-Simulation, Cloud based Automation and V&V.

EXPERIENCE

HCL Tech, Madurai — *LabView Engineer (Medical domain)*

Aug 2021 - present

Labview Software Developer For HIL Simulation, Test Application Development For Embedded System, SCADA, Software test Environmental for DDS, Web Services, Cloud based Automation System and V&V.

Mak Control and Systems PVT LTD, Coimbatore — *LabView Engineer (R&D)*

June 2017 - Aug 2021

Labview Software Developer for Aviation Ground Support Equipment such as APFC Control , SFC(Static Frequency Converter), Rectifier, SCADA Application, PID Control and Fuzzy Controls System.

Yashika Industries, Coimbatore — *LabView Developer*

June 2015 - June 2017

LabView Application Developer for SPM(Special Purpose Machine), ATE (Automation Test Equipment).

EDUCATION

Sri Shakthi Institute Of Engineering and Technology, Coimbatore — B.E EEE

April 2012 - Jun 2015

Electrical and Electronic Engineer.

RVS Polytechnic College, Dindigul, — D.EEE

Mar 2010 - April 2012

Electrical and Electronic Engineer.

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Natham Main Road,
Sanarpatti, Dindigul - 62304

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SKILLS

Programming Language

- LabVIEW
- Basic C

Protocols

- MODBUS TCP/IP
- MODBUS 485
- CAN

Simulation tools

- MULTISIM
- MATLAB basics

Communication

- RS232, RS485
- TCP/IP
- CAN
- USB
- SPI
- I2C

Lab-Equipment

- Digital Storage Oscilloscope
- RPS Power Supply
- Digital Multimeter

NI Hardwares

- NI-DAQs
- NI-myDAQ
- NI-PCIs
- NI Compact-rio
- NI Sb-RIO
- USB-SPI/I2C
- USB-CAN
- RASPBERRY PI
- ARDUINO

LANGUAGES

Tamil, English

PROJECTS

Temperature control System — NI DAQ -6008

The project is to control the boiler heater using a PID-based control system and a K-type thermocouple.

Petroleum & Gas value Endurance Test System— NI C-DAQ 9132, NI 9218, NI 9207, NI 9213

The Valve Endurance test system based monitoring and data logging the pressure, temperature, open/close feedback, actuator control during cyclic test at different environments.

Switch Endurance Test System — NI C-DAQ 9132, NI9430, NI9923

Domestic On/OFF Switch Endurance Test System, N number of cycle tests based minimum load test, maximum Load test, No Load test.

ISRO LPSC SCADA System— NI 9149 Ethernet ,NI 9233,NI 9201

The Liquid Propulsion Systems Centre (LPSC) for ISRO's Launch Vehicles Simulation unit to Monitoring & Datalog the Pump Parameters, and Fluid Control Valves, Transducers, GearBox status, 5 MW Motor temperature through Modbus TCP/IP, Modbus 485 protocol Communication.

Petroleum Pump Functional Test System— NI CRIO 9039,NI 9203,NI 9211,NI 9401.

The Valve Endurance test system based monitoring and Data logging the pressure, temperature, open/close feedback, actuator control, During Cyclic test at Different Environments.

100kVA Generator ECU Data Logging System— NI USB-8502

The project Monitoring the Engine Control unit Parameter and data log at time interval

Battery Management System (HIL Validation)— NI DAQ 6738

The project generates the voltage signal using the NI DAQ 6738 PCI to verify the functional validation of the BMS board.

GSE-SCADA— USB Serial Converter

This project Monitor all MAK Ground support equipment, (GPU, ASU, ASU & LnT) communicate through Rs-232 communication, In this software online and Offline data stored to .csv file format and xlsx file.

GSE-Web service— GSM Web Module

This project monitors all MAK Ground support equipment, (GPU, ASU, ASU & LnT) communicate through Rs-232 communication, and root through the GSM Web Module to send the data to the Cloud system.

Three phase APFC Control System — NI-GPIC 9683, NI-SbRIO 9606

This project to maintains the power factor and harmonics from the Three phase Power supply unit, at the level of 0.9 PF and >3% harmonics with help of Active power factor Control with 6 pulse topologic Rectifier.

15kVA Static Frequency Converter — NI-GPIC 9683, NI-SbRIO 9606

This project involves static frequency converter of the power rating 15kVA SFC which Used to convert the supply from 3ph, 415V, 50Hz to 3ph, 200V, 400Hz and CO-Simulation of MULTISIM LabVIEW

50Kw Rectifier— NI-GPIC 9683, NI-SbRIO 9606

To Develop a rectifier unit, 50kW, 28V DC for use in pulsed radar application for the Defense Products. 3ph/415V AC/50Hz/3-wire input supply to deliver total continuous load of 28V DC, 50kW

CAN Message Sequence Testing Software Development of hemodialysis System — NI CAN USB 8501

The project to develop the CAN Message Sequence Testing Software Development of hemodialysis System, Periodic message and Sequence Message, For the Functional testing CAN Network.

HIL Software Development of hemodialysis System — NI DAQ 6612 & NI DAQ 6738

The project to develop the algorithm of sensor and hardware peripherals in the Hemodialysis Machine and test the Functional Validation of three the CPU Board.

HIL Software Development of hummingbird phaco machine — NI DAQ 6612 & NI DAQ 6738

The project to develop the hummingbird phaco machine Simulator ,for the Functional Validation of phacoemulsification CPU Board, to simulate the input peripheral signal given to the CPU Board.