



Sugumar Alagarsamy

INSTRUMENT AND ANALYZER ENGINEER

I aim to ensure that erection, commissioning, maintenance and trouble shooting operation are safe and cost effective

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📍 **E.Malampatty post,
Melur Taluk, Madurai
dist, Tamilnadu,
S.India.625102.**

Academic qualification

Bachelor of Instrumentation and control engineering - 7.5CGPA
August 2010 - May 2013
Sethu institute of technology
Madurai, Tamilnadu, S.India

Diploma in Instrumentation and control Engineering - 80.5 %
August 2006 - April 2009
Annamalai polytechnic college
Chettinad, Tamilnadu, S.India

Major subjects

Process control
Analytical Instruments
Industrial Instrumentation
Control Engineering

Certifications

Certified Automation Engineer (CAT) by Technocrat Automation

Certified in DCS & PLC OVERVIEW by Yokogawa India Ltd.

Certified in NI LABVIEW core1 and core2 by National Instruments

Certified in PLC by "I-MAX-industrial Automation Technology

Certified in Advanced C programming and HTML

WORK EXPERIENCE (8 + years)

Automation Engineer (Instrument)

EGIS INDIA CONSULTING ENGINEERS PVT LTD.

Oct 2021 - Present

- To execution of all instrumentation and electrical control in oil and gas, water projects, as per P&ID diagrams, preparing the documentation and developing the P&ID and hook up diagrams. The multidisciplinary requirement on systems
- Perform as consultant engineer, to verify all P&ID, GAD, SLD diagrams, and supervision of total process
- Provide technical support to activities involved in the specification, procurement, fabrication, installation and operation of specified project related equipment and design
- Handling the whole project automation system with SCADA, GPRS communication system connected with field instrument devices and developing the P&ID diagrams.
- Interface with team (other project engineers, mechanical engineer, process operators) to ensure and timely information transfer and issue identification and resolution
- Handling the whole project automation system with SCADA, GPRS communication system connected with field instrument devices and developing the P&ID diagrams

Instrument and Analyzer service engineer

ANSAC TECHNOLOGY PVT LTD, SINGAPORE

FEB 2017-SEP 2021

- Maintenance and calibration and Servicing of all field side Instruments and Analyzers
- Installation of PT, FT, TT, LT, DPT, PS, (YOKOGAWA, ROSEMOUNT, E&H)
- Installation of PLC (SIEMENS) and I/O MODULES.
- Installation of local control panel, and control panel wiring,
- Calibration, Commissioning and Troubleshooting of Ammonia Analyser (HACH, ABB), fluoride (HACH, ABB), Free chlorine and Total chlorine (HACH, CRONOS, SWAN) and TOC (HACH) analyzer.
- Loop checking of Field instruments, PCB and Component level Trouble shooting
- Troubleshooting of Control valves and ON/OFF valves (ROTORK),
- Termination of SOV and all on/off valves. (2, 3/2, 5/2, Way) (Fisher instruments)
- Servicing of control valves and on/off valves. (1", 2", 6", 8" inches),

Analyzer Technician

PLANT ELECTRICAL INSTRUMENTATION PVT LTD, SINGAPORE

MAR 2016 -FEB 2017

- Commissioning and Troubleshooting of Gas chromatography (GC 8000 MARK II YOKOGAWA)
- Calibration and troubleshooting of pH and Conductivity Analyzer. (YOKOGAWA and E&H)
- Servicing of regulators, stream selection valves. (SWAGELOK).
- Commissioning and Troubleshooting of O2 analyzer. for PPM & Percentage. (TELEDYNE INSTRUMENTS).
- Calibration and troubleshooting of hydrocarbon detector (DETERONICS)
- Installation of all quality analyzers and sampling systems
- Maintenance of all instruments and field analysers.
- Installation of local control panel, and control panel wiring,

Intenship training

Training in INDIAN OIL
CORPORATION, Chennai,
Tamilnadu.S.India
(13/12/2011 to 21/12/2011).

Training in THE INDIA CEMENTS LTD,
Thirunelveli, Tamilnadu., S.india
(11/06/2011 to 17/06/2011).

Computer skills

LADDER BUILDER FOR KVversion: 1.50
CX-PROGRAMMER FOR CP1Eversion:1.5,
SCADA FIX-32 version 7.0,
LABVIEW AND MATLAB.

Personal information

Father's name - Alagarsamy
Dob - 20-mar-1991
Marital status - married
Nationality - India
Passport no. - U8839602
Driving license - India license
Singapore class 3C

Interpersonal skills

- Leadership skills
- problem solving technique with unfailing dedication to deadlines and commitment
- Project management
- Able to work underpressure
- flexibility and an ability to compromise
- strong teamworking skills, with an ability to motivate others and to lead or manage teams and projects
- Good communication

Sr.Instrument technician

EMCO COMPANY, QATAR

AUG 2015 - FEB 2016

- Calibration of pressure gauges (Switzer), pressure switches (Switzer), pressure transmitters(ROSEMOUNT, YOKOGAWA,KOBOLD,IFM) temperature transmitters, level transmitters, flow transmitters (ROSEMOUNT, YOKOGAWA, KROHNE and E&H).
- Handling the hole project automation system with SCADA ,GPRScommunication system connected with field instrument devices and developing the P & ID diagrams.
- Troubleshooting of Controlvalves and ON/OFF valves (ROTORK),
- Termination of SOV and all on/off valves.(2,3/2,5/2,Way)(Fisher instruments)

Instrument Supervisor

OEG INDIA PVT LTD,TUTICORIN

MAR 2014 - AUG 2015

- Commissioning of PT,FT,TT,LT,DPT,PS, (YOKOGOWA,ROSEMOUNT,E&H)
- Termination of Thermocouples, RTD. (J,K,L and N Type, RTD pt-100, pt-1000)
- Servicing and setting of Motor operated valves (MOV) and control valves.
- Termination of Thermocouples, RTD. (J,K,L and N Type, RTD pt-100, pt-1000)
- Servicing and setting of Motor operated valves (MOV) and control valves.

Assistant Engineer

AN INSTRUMENTS PVT LTD,

MAY 2013- MAR 2014

- Prepares the technical documentation for instrumentation and systems requisitions and performs the technical evaluations.
- Erection, commissioning and maintenance of all industrial instruments
- installation of gas analyzers, and fire alarm detectors
- validation of all industrial analyzers

Professional skills

- Able to handle oil and gas, water, metal refinery instrumentation projects as team lead
- Calibration of pressure gauges (Switzer), pressure switches (Switzer), pressure transmitters(ROSEMOUNT, YOKOGAWA,KOBOLD,IFM) temperature transmitters, level transmitters, flow transmitters (ROSEMOUNT, YOKOGAWA, KROHNE and E&H).cal
- Implements instrument detail design on P&ID's.
- Installation of LCP, I/O modules in RIO PANEL unit .
- commissioning of motors, pumps using soft starters and variable frequency drives.
- PLC Programming knowledge process control system, with reliable Input and outputs.
- calibration and functional parameter change using of HART 475 communicator
- Servicing of control valves and on/off valves.(1",2",6",8" inches),
- Gland (NPT,ET) and Termination.
- Troubleshooting of Control valves and ON/OFF valves (ROTORK)
- service the pneumatic cylinder and replacing o rings
- Instrument cable laying and Tubing(1/4", 1/2").