

ARAVIND PANNEERSELVAM

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Automation Professional with proven experience in implementing and handling automation projects, passionate for delivering technology based solutions to clients with broad programming, design, development, networking and troubleshooting skills.

PROFESSIONAL SYNOPSIS

- ↻ 2 years of experience in Industrial Automation as a Project Engineer. Study of wiring diagram of Instruments and panels, PLC Programming, SCADA development, control system development, technical support.
- ↻ Project Engineering entailing Industrial Control & Automation, PLC, and SCADA.
- ↻ Experience in Project Planning and Scheduling, Project Management, PLC Programming, designing SCADA, HMI and in database development.
- ↻ Experienced in commissioning Defence industries, Space Industries, Manufacturing Industries.
- ↻ An effective communicator with excellent skills in building relationship. Possess strong analytical problem solving organizational abilities and a sound logical mind.
- ↻ Automation and control systems development, BOM Preparation, FAT and URD Document Preparation, Instruments Selection, Software Development, Project Leading, System Integration, Start-up, Support, Field Installation and Field Commissioning.

EMPLOYMENT SCAN

Basell Automation System Private Limited, Chennai, India

Aug'13 – May'15

Company Profile: Basell Automation System Private Limited, started by a team of young and dynamic technologists with abundant experience in various industries which includes Glass, Power, Material handling, Aeronautical, Heat Treatment and Water treatment plant.

JOB PROFILE

Technical

- ↻ **PLC** specification and programming, including configuration of digital and analog I/O.
- ↻ **SCADA** and **HMI** planning, designing, configuration and programming.
- ↻ Customized **Report Design and Generation in MS Excel** as per Customer Requirements.
- ↻ Protocols handled: **Modbus, Profibus, Ethernet, Fibre Optic Communication.**
- ↻ Software skills: **C, C++, Visual Basic, Java, .NET, MS-SQL, SQL Server, ODBC, Crystal Report Excel Macros, MS Office, AutoCAD.**

Products Handled

- ↻ **PLC:** Honeywell (ML Series, HC900), Siemens (S7-1200, S7-300, S7-400) GE Fanuc (MicroPLC, Versamax), Schneider, Rockwell, Invensys Foxboro PAC (T2550).
- ↻ **PLC Software used:** Soft Master, Hybrid Control Designer, Simatic Manager, TIA Portal, Proficy Machine Edition, RS Logix, Unity Pro XL, E-SUITE.

- ☞ **Programmable PID Controllers:** Eurotherm(3200 Series, 2400 Series, 2604, 2704)
- ☞ **SCADA:** Honeywell Experion, Siemens Simatic WinCC, GE Cimplicity, Factory Talkview, Vijeo Citect, Intouch Woderware.
- ☞ **VFD Drives :** ABB ACS 150, Siemens Sinamics V20.
- ☞ **Thyristor Drives :** Eurotherm All Models, Honeywell, AEG Thyro P.
- ☞ **DCS :** Honeywell EPKS, Yokogawa CS300, Emerson Delta V
- ☞ **HMI:** Honeywell, ESA

Clients Handled

- **Hindustan Aeronautics Ltd, Bangalore.**
- **ISRO, Satish Dawan Space Centre, SHAR, Sriharikotta.**
- **Crystal Growth Centre, Anna University.**
- **Bharat Forge Limited, Pune.**
- **Vardhman Special Steels Ltd, Ludhiana.**

Professional Projects Handled

- ☞ **Gas Carburizing Furnace operation at HAL:** Installation and Commissioning of Gas Carburizing Furnace at HAL Aerospace Engine Division.
PLC Used: Honeywell Hybrid Controller (C30) with 96 I/Os.
Controllers Used: Eurotherm 3216.
SCADA Used: Honeywell Experion HS R400 SCADA with 300 Tags.
Roles and Responsibilities: Developed FAT Documents, Panel Testing, Field Cable Termination, PLC Logic Development, SCADA Development, Run Furnace in Auto Mode with PLC.
- ☞ **Rotary Bed Muffle Furnace operation at HAL:** Installation and Commissioning of Rotary Bed Muffle Furnace at HAL Aerospace Engine Division.
PLC Used: GE Versamax with 96 I/Os.
SCADA Used: GE Cimplicity V8.2.
PID Controllers Used: Eurotherm 2604 (CP Control), 3504, 3216.
Drives Used: ABB ACS150
- ☞ **Curing Process at ISRO, Sriharikotta:** Commissioning and Management of Curing Process in Solid Propellant Plant at ISRO, SHAR, Sriharikotta.
PLC Used: Siemens S7400H (Full Redundant System) with 3000 I/Os including Slaves.
PID Controllers Used: Eurotherm 2604, 2704 with Profibus Communication.
Software Used: Simatic Manager, Simatic WinCC V7.0
Instruments Used: Siemens SIMOCODE, Temperature Transmitter, Isolators, RPM Transmitters, AEG Thyristor Drive.
Roles and Responsibilities: Developed FAT Procedure and Documents, BOM Preparation, Testing All IMCC Panels and PLC Panels, Testing of All Instruments, Prepared User Required Documents, SCADA Screen Development and Logic Development.
- ☞ **Hardening and Tempering Furnace at Bharat Forge Limited:** Integration of 3-PLC with SCADA.
PLC Used: Honeywell ML50 – 3 PLC with 600 I/Os.
SCADA Used: Honeywell Experion HS R400 with 1100 Tags.
Roles and Responsibilities: PLC Logic development, SCADA Development, PLC and SCADA Integration.
- ☞ **Bell Type Furnace at Vardhman Special Steels Ltd:** Integration of 9 control panels for 9 Furnace with Single SCADA.
PID Controllers Used: Eurotherm 2404, 3216
SCADA Used: Honeywell Experion HS R410
Drives Used: Siemens Sinamics V20
- ☞ **Furnace Control Application at Crystal Growth Centre:** Commissioning of Eurotherm Controllers and Thyristor for Furnace Application.
Controllers Used: Eurotherm 2604
Thyristor Used: Eurotherm 7100A

Academic Projects

- **Patient Information System:** This Project can be used to keep track of the patients registering in a Hospital or Clinic.

Software Used: C#.Net at Frontend and SQL Server at Backend.

- **Driver Assist Co-pilot System for Emergency Cruise Control Using Hybrid Sensor Network:** This project provides an effective way to monitoring the drivers distraction and health condition but also provides a driver assist co-pilot system that takes the vehicle's cruise control for short durations during driver distractions or permanently during a situation like heart attack and brings the vehicle to a safe halt.

Area of Interest

- Industrial Automation and Instrumentation (Oil and Gas, Cement, FMCG, Heat Treatment and other Process Industries).
- Project Planning, Document Preparation, SCADA Designing, Script writing, Database Development.
- Testing, Commissioning, System Integration using various Instruments, Calibration and Testing of Field Instruments.

Educational Credentials

- **Bachelor of Engineering Electronics & Instrumentation Engineering,** SRM Valliammai Engineering College, Chennai, **Anna University** in 2010 – 2013 with CGPA 7.4
- 2007 – 2010 Diploma in Computer Engineering in Srinivasa Subbaraya Govt. Polytechnic College with 95%.
- 2006 - 2007 10th in Arivalayam Matric. Hr. Sec. School Mayiladuthurai with 88%.

Trainings & Certifications

- Completed Training on DCS (Honeywell EPKS), SCADA, PLC (ML200R) in **Honeywell Automation India Ltd,** Pune.
- Undergone workshop on "Automation and Field Instrumentation" in **Rashtrya Chemicals and Fertilizers Ltd,** Chembur, Mumbai.
- Undergone Training Programmes on Power Distribution at TANGEDCO about Transformer Maintenance, Chennai.

Personal Information

Age & Date of Birth : 23 years, 25th November, 1991.
Gender : Male
Marital Status : Single
Nationality : Indian
Languages Known : Tamil, English, Hindi.
Passport Number : L4672681
Passport Validity : Up to 17th October, 2023
Visa Status : Visit Visa
Visa Validity : Up to 5th October, 2015
Languages Known : English, Hindi, and Tamil
Permanent Address : 3/245, South street, Poygaikudi, Kali (PO),
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