ARROL DEVIN PEREIRA

COMPONENT & COMPLIANCE ENGINEER

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OBJECTIVE
To obtain a responsible position within an organization which will help me deliver my best and upgrade my skills in engineering and meet the demands of the organization.

EDUCATION
- **Bachelor of Engineering in Electrical & Electronics**　　　　　**Aug '15 - June '19**
  St. Joseph Engineering College, Mangalore, India
- **12th Grade**　　　　　**June '14 - Mar '15**
  Padua Pre-University, Mangalore, India

WORK EXPERIENCE
Enventure Engineering LLP, Bangalore – Component & Compliance Engineer　Feb '20 – Present
- Bill of Materials (BoM) cleansing and Component classification
- Identifying lifecycle status of the component (Active, NRND, EOL/LTB, Obsolete) and suggesting replacement parts using Form, Fit and Function (FFF) analysis
- Reading and understanding the technical datasheet to locate and compare equivalent part
- Analyzing Product Change Notification (PCN)/Product Discontinuance Notification (PDN) and providing EOL/LTB dates
- Understanding of mounting types, packing and packaging used for shipment process
- Good knowledge on various Electronic and Electromechanical components
- Collecting and verifying the Full Material Declaration (FMD), Safety Data Sheets (SDS) for hazardous material, REACH, RoHS and CA Proposition 65 regulatory compliance
- Communicating with Manufacturers/Suppliers when needed to gather Technical/RFQ information

TECHNICAL SKILLS
- **PLC:** Programming languages such as Ladder Diagram, Functional Block Diagram and Structured Text Language to meet the needs of system & customer
- **SCADA:** Screen designing, working with alarms and trends, DDE (Dynamic Data Exchange), PLC interface with SCADA by using OPC (Open Platform Communications)- KEPServerEX
- **Design Softwares:** Schematic drawing and PCB designing using OrCAD, designing of machines using AutoCAD
- **Hardware Tools:** Relay logic designing and wiring, designing and wiring of control panels and MCC (Motor Control Center) panels, pneumatics and field instruments, ESP8266, Arduino, sensors
- **Office Applications:** MS Office
- **Programming Languages:** C++, Python, HTML

INTERNSHIP
Karnataka Power Corporation Ltd., Bangalore　　　　　**July '18 - Aug '18**
- Parameter evaluation of meteorological instruments

- Site selection, sizing of solar systems and selection of solar panels
- Wiring fundamentals
- Safety in installation and commissioning
- Operation and maintenance standards
- Use of software packages such as "PVWatts Calculator" to estimate the energy production and cost of energy of PV systems
- Estimation of electrical load in a house, selection of inverters and batteries

PROJECTS

1. **Aqua Drone - Water Waste Collector and Water-Air Quality Monitoring in IoT Environment (Team Size: 4)**
   - Designed a prototype to collect the water debris floating on the rivers which also focuses on analysing the water-air quality with high performance, real time and accuracy.
   - Developed the system using **ESP8266 NodeMCU Wi-Fi Devkit** with **pH** and **DHT11 sensors**.
   - Used **Embedded C** and **ThingSpeak API** for coding and obtaining the result.
   - **Radio control** and **Conveyor system** were employed.
2. **Home Automation using IoT (Team Size: 3)**
   - Developed a home automation system that gives the user complete control over all remotely controllable aspects of his or her home.
   - Used **Cayenne IoT Platform** to program the **Raspberry Pi** and display the result.

TRAININGS/CERTIFICATIONS

- Post-Graduation Diploma in "Automation and Control Engineering"
  Technologics Global Pvt. Ltd., Bangalore, affiliated to N.S.D.C, ESSI and Skill India
  Course Description:
    - **PLC:** Delta, Omron, ABB, Allen Bradley, Honeywell, Schneider, Mitsubishi, Siemens
    - **SCADA:** iFIX, Wonderware InTouch, FactoryTalk View, KingView, WinCC
    - **VFD:** ABB, Siemens
    - **HMI:** Delta, Siemens
    - **DCS:** ABB
    - Siemens TIA Portal
- Electronic and Electrical Devices Maintenance and Troubleshooting certification
  Udemy E-learning
- Generation, Transmission and Distribution of power certification
  TATA STEEL
- Power System Protection, Power Cables, Earthing and Shock certification
  TATA STEEL
- Learn to Design your Solar Home Systems
  Energy Swaraj Foundation
- Arduino training certification
  The Spoken Tutorial Project, IIT Bombay
- The Fundamentals of Digital Marketing
  Google Digital Garage

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

Date:
Place: Bangalore   **ARROL PEREIRA**