ARROL DEVIN PEREIRA

ELECTRICAL & ELECTRONICS ENGINEER

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OBJECTIVE

To obtain an entry-level position within an organization that offers security & professional growth which requires strong analytical & technical skills.

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
- **10th Grade** **June '12 - Apr '13**
  St. Joseph's Eng. Med. High School, Mangalore, India

TECHNICAL SKILLS

- **PLC:** Programming languages such as Ladder Diagram, Functional Block Diagram & Structured Text Language to meet the needs of system & customer
- **SCADA:** Screen designing, working with alarms & trends, DDE (Dynamic Data Exchange), PLC interface with SCADA by using OPC (Open Platform Communications)- KEPServerEX
- **Design Softwares:** Designing of machines using AutoCAD, circuit design, simulation, analysis & PCB design using eSim
- **Hardware Tools:** Relay logic wiring & design, designing & wiring of control panels & MCC (Motor Control Center) panels, pneumatics & 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
- Selection of solar panels & system design
- Site selection, sizing of solar systems
- Wiring & electrical fundamentals
- Safety in installation & commissioning
- Operation & maintenance standards
- Earthing of solar plants
- Use of software packages such as "PVWatts Calculator" to estimate the energy production & cost of energy of PV systems
- Estimation of electrical load in a house, selection of inverters & batteries

PROJECTS

1. **Aqua Drone - Water Waste Collector & 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 & accuracy.
   - Developed the system using **ESP8266 NodeMCU Wi-Fi Devkit** with **pH** & **DHT11 sensors**.
   - Used **Embedded C** & **ThingSpeak API** for coding & obtaining the result.
   - **Radio control** & **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** & display the result.

TRAININGS/CERTIFICATIONS

- Post-Graduation Diploma in "Automation & Control Engineering"
  Technologics Global Pvt. Ltd., Bangalore, affiliated to N.S.D.C, ESSI & 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 & Electrical Devices Maintenance & Troubleshooting certification
  Udemy E-learning
- Generation, Transmission & Distribution of power certification
  TATA STEEL
- Power System Protection, Power Cables, Earthing & 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

CO-CURRICULAR ACTIVITIES

- Regular participation in **"**The Coca-Cola Cup"
  All India Football Federation, India
- Won accolades in singing competition
  Intra-College Cultural & Literary Event

DECLARATION

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

Date:
Place: Bangalore **ARROL PEREIRA**