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**S.Raviprakash**

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### **CAREER VISION**

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity for continuous learning.

### **KEY HIGHLIGHTS**

- Highly skilled and self-motivated electrical engineer with around 7 years of work experience in special purpose machine development and CNC machine development.
- Knowledge and experience in Load calculation, Heat loss calculations, cable selection based on voltages, solid resistivity, and derating factors.
- Knowledge and experience in IEC standards IEC 60204-1 / EN 60204 ,IEC 61439,IEC60364,IEC 60038.
- Experience in Inrush protection (IP) rating selection for components and panels.
- Knowledge and experience in component selection for projects
- Hand on experience in CE, CSA drawing preparation, Single line drawing preparation and design with CE, CSA norms.
- Hand on experience in safety relays/PLC basic safety used for CE/CSA safety functions.
- Highly experience in Eplan electric P8 and having knowledge in project creation based on IEC61355 standards.
- Experience in creating engineering data, circuit diagrams and schematics using Eplan electric P8 and created 150+ circuits using Eplan 2.9.
- Experience in 3D design and construction of control cabinets, switch gear system using Eplan pro panel.
- Experience with Part life cycle management tool Team center by siemens and performing ECR/ECO activities for Engineering changes using oracle and infor LN tool.

- Having exposure in the planning of required new tests specification based on application, validating the components by making proper test in both component and machine level to supply issues free product to the customer.
- Experience in integrating and programming AC variable speed drives.
- Experience in PLC programming (B&R) and Beckoff PLC.
- Hands on experience in PLC conversions (AB to B&R PLC)

## **PERSONAL SKILLS**

|                     |  |
|---------------------|--|
| <b>Design Tools</b> | Eplan Electric P8, Eplan pro panel, B&R , MPLAB, IAR Workbench, Ride |
| <b>Programming</b>  | Ladder logic, Structured text.                                       |

## **WORK EXPERIENCE**

### **ASSISTANT ENGINEER (March 2017 to December 2017)**

#### **REVANTHA SERVICE LIMITED, Coimbatore.**

- Designing electrical circuit and wire harness for special purpose machines.
- BOM preparation and PLM.

### **SENIOR ENGINEER (Jan 2018 to Feb 2022)**

#### **LAKSHMI LIFE SCIENCES LIMITED (Group of Lakshmi Machine Works), Coimbatore.**

- Design and preparation of different electrical schematic drawing required for special purpose machines based on customer requirement using Eplan electric P8.
- Design 3D control panel cabinets routing for machines using Eplan pro panel.
- Generation of reports and form creation using Eplan
- Preparation of wire harness for machines using Autocad and Eplan tool.
- Handling of PLM software (Team center).
- PLC programming using B&R automation studio.
- Creation of Bill of material using oracle tool.

## **ENGINEER (Mar2022 to till now)**

### **Messer cutting systems, Coimbatore.**

- Design and preparation of electrical schematic drawing for CNC cutting machines using Eplan electric P8.
- Testing and validation of globally developed machines.
- Handling of customer projects and special retrofits.
- New panel layout preparation and finalization.
- Creation and maintenance of Bill of materials for all electrical items.
- Making of design calculation and new electrical components selection based on market availability for new machines.
- Handling of CPD and NPD projects.

## **ACHIEVEMENTS**

- Created 150+ drawing with different options using Eplan tool.
- Format creation and successful migration of Electrical drawing from Autocad to Eplan.
- Implementation of safety relays in CE machines for ensuring the safety.
- Implementation of Danfoss FC360 drive instead of VLT2800 drive for cost saving.
- Design and implementation of three sensor concept in blowroom textile machine for effective operation of the machine.
- Effective implementation of 360° Degree shielding in panel for enhanced EMI performance.
- Collaborate with Global R&D team and developed new laser cutting machines with 2G acceleration
- Successfully developed low cost machine for Indian market.

## **PROJECTS**

**PROJECT TITLE** : Blowroom Interlinking Panel.

**TOOLS USED** : Eplan Electric P8-2.7, Eplan propanel.

**DESCRIPTION** : In Blowroom there are variety of machine available for opening, cleaning and blending of materials. Each and every machine are connected through larger pipelines and material diverted through Bypass and Two way distributors. All machines are interlinked by using blowroom interlinking panels based corresponding operating signals.

**PROJECT TITLE** : Autoblend machine.

**TOOLS USED** : B&R Automation studio 4,Eplan Electric P8-2.7,Autocad 2018.

**DESCRIPTION** : In textile industry Blending 4 types of material can be achieved by using this Autoblend machine.For this machine component selection,DFMEA,I/O list preparation,single line diagram preparation,schematic multi line drawing preparation,wire harness preparation,terminal block list preparation,Panel layout preparation,BOM preparation are done based on standards.

**PROJECT TITLE** : Continuous feeding of material to carding machine from blow room machines .

**TOOLS USED** : B&R Automation studio 4,Eplan Electric P8.

**DESCRIPTION** : Cotton or other type of materials are transferred from blow room process to carding process in textile spinning process.Here material can be transferred not continuously.To overcome this issue we are going to use pressure transducer in carding machine,Based on the pressure variation material can be sent from blow room process last machine to carding machine without stopping of carding machine.

**PROJECT TITLE** : Fiberblade 6

**TOOLS USED** : Eplan Electric P8,Beckhoff twinCAT 3,Infor LN

**DESCRIPTION** : Analyzed the global and Indian market and developed a new laser cutting machine with 2G acceleration. Machine developed with split connectors and cables to overcome the logistics issue.

**PROJECT TITLE** : Element 400-Low cost variant

**TOOLS USED** : Eplan Electric P8,Beckhoff twinCAT 3,Infor LN

**DESCRIPTION** : Developed a new cutting machines incorporates oxyfuel, plasma and laser cutting. Machine developed with low cost for Indian markets with no compromise in the cutting quality. To achieve accuracy in the axis Yaskawa drive are used.

## **EDUCATION**

|                    |   |
|--------------------|---|
| <b>2013 –2015</b>  | <b>Kumaraguru College of Technology, Coimbatore.</b><br>Autonomous, Anna University, Chennai<br>M.E. Embedded Systems<br>- 8.25 CGPA      |
| <b>2009 – 2013</b> | <b>SNS college of engineering, Coimbatore.</b><br>Anna University, Chennai<br>B. E. Electrical and Electronics Engineering<br>- 7.03 CGPA |
| <b>2007 – 2009</b> | <b>Mahendra Matric HSS, Tiruchengode.</b><br>State Board<br>- 78.60 %   |
| <b>2007 -2006</b>  | <b>Mahendra High School, Tiruchengodu.</b><br>State Board<br>- 78.50 %  |

## **PERSONAL INFORMATION**

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|------------------------|---|---|
| <b>Date of Birth</b>   | : | 10 September 1991   |
| <b>Father's Name</b>   | : | Mr. K.Soundararajan   |
| <b>Mother's Name</b>   | : | Mrs. S.Selvi  |
| <b>Address</b>         | : | 1/437,Mahalakshmi Nagar,<br>Seerapalayam pudur,<br>Eechanari,Coimbatore-641021. |
| <b>Mobile No.</b>      | : | 9677840003  |
| <b>E – mail ID</b>     | : | prakashkandasamy91@gmail.com  |
| <b>Languages Known</b> | : | Tamil, English  |

**Declaration:** The information furnished above is correct to the best of my knowledge.

**Place:** COIMBATORE

**Date:**

**(S.Raviprakash)**