

## **Mrs. SONI.P**

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### **Summary of Skills and Experience**

An Electronics Engineer with 17 years experience in Industry (11yrs in software development and 6 years in Design and development of CNC machines) and more than 10 years in teaching.

### **Educational Qualifications**

M.Tech in Embedded Systems Design(Rajagiri College,Kakkanad –IGNOU Regular) in 2012 with 78% marks  
B. Tech (Applied Electronics and Instrumentation) from College of Engineering, Trivandrum, Kerala University in 1991 with 71.4% marks.  
Pre-Degree from Govt.Victoria College,Palghat in 1986 with 78.4%  
S.S.L.C from Railway High School,Palghat in 1984 with 88.33%

### **Papers Published /Presented**

- 1) Presented a paper on "image compression and Reconstruction using Modified Haar Wavelet Transform" in an International Conference on "Trends in Research,Engineering & Development Sciences" conducted at SCET,Kodakara in June2015 and won the best paper award in the session "Image and Signal Processing".  
The same was published in ARPN journal of Engg.& Applied sciences Vol10,No.17,Sept2015.
- 2) Co-authored a paper on "Optimized Cordic Designs and Application of Bi-Cordic in JPEG compression" with Ms.Aparna.M . The same was published in ARPN journal of Engg.& Applied sciences Vol10,No.17,Sept2015.
- 3) Co-authored a paper on "Tele Stethoscope" with Vivek.O.M and Dr,George Varkey . The same was presented in an International conference on "Trends in Research,Engineering & Development Sciences" conducted at SCET,Kodakara in June2016

**Had volunteered as a Session Chair in the International Conference on Trends in Research, Engineering and Developmental Sciences held at Sahrdaya College Of Engineering &Technology,Kodakara,Thrissur in June2016.**

### **Certificates**

OCP in Oracle 9i DBA.  
OCA in Oracle 9i Application.

### **Training Attended**

Training on Unix and Oracle 6 given by HCL-HP in 1992.  
Training on Solaris and Oracle 8i given by Sun in 2002.

### **Technical Expertise**

Languages /Tools	C, C++, PL/SQL, SQL*Forms, SQL*Reports, Pro*C, MS Visual Studio,Proteus s/w, Matlab,PSpice s/w
Database	Oracle 6/7/8i/9i
CNC Systems	Siemens 802D/810D/840D,Fanuc 0iTB/0iTC/MateTc.
PLC	Using Ladder diagrams,Statement lists in different PLCs.
OS	Windows, Unix/Solaris/Linux

**D.O.B : 15/05/1969.**

**Place Of Birth : Tellicherry,Kannur Dist.,Kerala.**

**Organizational Experience****Dept. of Instrumentation,CUSAT,Thrissur(From July2019)**

Designation : Asst.Professor(Contract).

**Cochin University Of Science and Technology,Thrissur(From Aug2017-May2019)**

As a guest faculty in EC dept of SOE and Marine Geo Physics(Marine Campus)

**Sahrdya College Of Engg & Technology,Kodakara(From Dec2013-July2016)**

Designation : Asst. Professor

Department : Electronics and Communication dept.

**TIME,Palarivattom(Aug2012-July2013)**

As a Faculty for GATE coaching in EC

**Adi Shankara Institute Of Engineering and Technology,Kalady(July2009 –July2012)**

Designation : Asst. Professor

Department : Applied Electronics and Instrumentation

**HMT Machine Tools Ltd. Kalamassery,Kerala. (April2003 – 3rdMar2009)**

Role : Senior Engineer

Department : Designs

Responsibilities : Responsible for the Electrical/Electronics Design of CNC Machines – Selection of suitable system and drives, preparation of interface diagrams, preparation of PLC software and machine commissioning.

Training for Customers/trainees/B.Tech students.

Project guidance for B.Tech students.

**HMT Machine Tools Ltd. Kalamassery,Kerala. (1998– 2003)**

Role : Engineer

Department : Computer Centre

Skill set : Oracle, PL/SQL, SQL\*Forms, SQL\*Reports, Pro\*C, SQL\*Loader, Unix.

Responsibilities : Computerization of the following departments  
Design,Planning,PPM (Prodn. planning of materials)  
Purchase,Stores,PPO(Production planning and organization).  
The work involved system study, analysis, design, development and implementation.  
Project Guidance for B.Tech / MCA students.

**HMT Printing machinery Divn. Kalamassery,Kerala. (1994Dec– 1998)**

Role : Dy.Engineer.

Department : Engineering

Responsibilities : Coordination and Computerization of the Engineering Departments of Printing Machinery Division.

Project Guidance for B.Tech/MCA students.

**HMT Watch Factory, Tumkur, Karnataka. ( 1992Mar– 1994Nov )**

Role	: Dy.Engineer.
1)Department	: Stepper motor Assembly for the watches(till 1993March)
Responsibilities	: Production supervision in Stepper motor Assembly dept.
2)Department	: Computer Centre(1993March-1994Nov)
Responsibilities	: computerization of the following departments. Design,R&D,Production Engineering,PPM,Purchase & Stores