

**SHANMUGAPRIYA. M. B**  
**B.E (Mechatronics Engineering)**  
Anna University, Chennai (TamilNadu)-620006.  
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## OBJECTIVE

Seeking a challenging position in System Design and Integration domain to apply my creative and design skills towards the organization growth as also to develop myself professionally in this field.

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## SUMMARY

- Experience in the troubleshooting of various field instruments.
- Know about basics PLC, DCS, SCADA, Lab VIEW.
- Know about basics of AutoCAD, PROE, CATIA.
- Strong Interpersonal and Communication skills.

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## PROFESSIONAL QUALIFICATION

- Completed PG Diploma in **Industrial Automation System Design** in **National institute of Electronics and Information Technology (NIELIT, formerly DOEACC), Calicut** in August 2013.
- Completed Bachelor of Engineering (**B.E**) in Mechatronics Engineering from **MAHARAJA ENGINEERING COLLEGE** affiliated to **Anna University**, Chennai with aggregate of **82%** in June 2012.

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## EDUCATIONAL QUALIFICATION

- Passed HSC from John Dewey Matriculation Higher Secondary School, Panruti, with **69.91%** in May 2008.
- Passed Tenth class from John Dewey Matriculation Higher Secondary School, Panruti, with **65.9%** in May 2006.

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## FIELDS OF INTEREST

- Industrial Automation
- Programmable logic Controller
- SCADA, DCS
- Lab VIEW
- Hydraulics and Pneumatics
- Automobile Engineering
- Manufacturing Technology

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## TECHNICAL SKILLS

- **Programming language** : Ladder logic, FBD in PLC and DCS, Graphical Programming in Lab VIEW, (PLC-AB SLC 500, ABB AC500, SIEMENS SIMATIC controllers (CPU 314&315-2DP).
- **HMI, Data Logging and Analysis Software** : SCADA (I-fix, Lab VIEW).
- **Industrial Networking** : RS 232, PROFIBUS, FOUNDATION field bus, HART protocol, SCADA to PLC, PLC to PLC
- **Other Skills** : Basis of Process Identification and Simulation, Electrical Wiring And Piping and Instrumentation diagram design.

## PROJECTS

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### Automation of PILOT Plant using DCS (ABB AC800 F)

Objective of Project:

Designing and implementing different control strategies used in various Process Plants.

Industrial Networking Used:

Profibus, Foundation Field bus

Controlled Variable Used:

Pressure, Level, Temperature.

<b><u>PG Diploma</u></b>	
<b>Title</b>	Temperature control using heat exchanger and level control in open tank.
<b>Team size</b>	3
<b>Organization Company</b>	<b>National Institute of Electronics and Information Technology (NIELIT), Calicut.</b>
<b>Description</b>	1. The project is to study the working and the characteristics of Cascade control and predictive Feedforward control. 2. Difference between Ziegler-Nichols and Auto tuning method of tuning PID. Hardware :ABB Freelance 800F Software :Control builder

## PROJECTS DONE IN ENGINEERING

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- **Wireless Fire Fighter with Obstacles Avoidance:** To clear the path of the robot by itself automatically during rescue operation
- **Hydro Pneumatic Jack with Pneumatic Gun:** To lift the light vehicle and changing the tires with very less effort at a very few minutes by replacing the screw jack

## INPLANT TRAINING

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**Rajsree Ford** a division of automotive private limited in Coimbatore - Learned about Trouble Shooting of four wheeler parts

## WORKSHOP AND CONFERENCE ATTENDED

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- **TECHNOPHILIA** in association with **TECHKRITI-10, IIT Kanpur at CIT** and learnt the basics of robot building from wired robot to computer robots with hands on experience.
- **TIFAC-CORE IN AUTOMOPTIVE ELECTRONICS** at **VIT** University on **wireless sensor networks focus on Zigbee and Automotive Applications.**
- **PROGRAMMABLE LOGIC CONTROLLER** and its **APPLICATIONS** at **Kumaraguru College of technology** learnt the basics of PLC.

## EXTRA CURRICULAR ACTIVITIES

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- Won **first prize** in **pencil drawing** conducted in my college
- Won **first prize** in **essay writing competition** at my taluk level conducted by Neyveli Book Fair

## PERSONAL INFORMATION

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- Name : Shanmugapriya. M. B
- Father's Name : Bhathrachalam .M
- Date of Birth : 20/05/1991
- Marital Status : Single
- Sex : Female
- Address : 1025/B, Thillai Nagar, L. N. Puram, Panruti, Cuddalore District, Tamil Nadu- 607106
- Nationality : Indian.
- Languages Known : English, Tamil.

## REFERENCE

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Dr. T. Velumani, M.E., PhD,  
Professor & Head,  
Department of Mechatronics Engineering,  
Maharaja Engineering College,  
Coimbatore-641654

## DECLARATION

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I hereby declare that above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of above-mentioned particulars.

Yours Sincerely,

Place:

Date:

(SHANMUGAPRIYA. M. B)