

J.STEPHEN – ME Applied Electronics

Plot No 3B, 1st Floor, Srinivasa Nagar, Kolapakkam, Chennai – 600122
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Carrier Objective

Seeking challenging and growth oriented opportunities in your esteemed organization where I can grow and use my talents in the field of Electronics Engineering.

PROFILE

- Dynamic and achievement oriented professional with **10+ years** of experience in Electronics Engineering especially in the field of Product Design & Development.
 - Currently spearheading with **AKAS MEDICAL EQUIPMENT** as **Asst. Manager in R&D** division (Pumps).
 - Experienced in designing Medical Equipments like Infusion Pumps, & Syringe Pumps.
 - Experienced in Medical equipment CE Marking & ISO 13485 Certifications.
 - Experienced in designing automation unit for DM&RO plant by using Microcontroller & PLC, visiting the plant sites for installation, service & modification for the plant automation.
 - Articulate communicator who can fluently speak the language of people and technology, blending technical expertise with interpersonal skills while interacting with the customers / teams and providing product and customer support.
 - Visited Germany (twice) & Italy (once) for business conferences & customer support.
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TECHNICAL SKILLS

EDA packages	ORCAD.
Design Expertise	Analog, Digital and Power circuit.
Testing tools	Analog/Digital oscilloscopes, Signal or Function generators, logical analyzer.
Protocols	I2C, SPI, RS232.
Project management tools	Arena, Microsoft Project 2000

PROFESSIONAL EXPERIENCE

AKAS MEDICAL EQUIPMENT, Chennai
07' Role: Asst. Manager (R&D Pumps)

since May

- Managing the R&D team consists of Software, Hardware, Mechanical Design & Development, and Testing Engineers (R&D Team Size 11 members).
- Responsible for new product development in Infusion & Syringe Pump.
- Responsible for getting CE mark for Infusion & Syringe pumps.
- Responsible for add more features and improvement in new product as well as running products depending upon customer need.
- Managing the circuit validation for all running projects.
- Sourcing Components, Vendor Development for new development.
- Accountable for circuit design, board bring up, preparing test charts, product validation and handing over the documentation of product for production.
- Accountable for product production smooth flow & take action to reduce the warranty failure.
- Handling CA (Corrective actions) & PA (Preventive action) related problems.
- Monitoring & Training Production Unit.

CB Hospital, Nagercoil
07' Role: System Engineer

July 06' – Feb

- Maintain PC LAN System, Teaching, and Training.

KOMAL Industries Ltd, Mumbai
06' Role: Engineer - Electronics

Jan 05' – June

- Designing automation unit for DM&RO plant by using Microcontroller & PLC.
 - Designing Hardware for Microcontroller projects.
 - Visiting the plant sites for installation, service & modification for the plant automation.
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PROJECTS

Project Name : **AKAS TERUMAX Rx (Syringe**

Pump) Company : AKAS Medical Equipment,
Chennai.

Technology Used : Controller LPC 1768, EEPROM 24C512, LCD & LED Display, DC motor, Keil tool.

Project Description : Syringe Pump used in hospital ICU & CCU to deliver drugs to the patient at precribed rate for the mentioned time. The basic operation is around the motor and by Controlling motor speed the accuracy will be achieved. Keypad and displays used for user interface.

Team Size : 6 Members

My Role : Project In charge, Design & Verify the hardware, Preparing PCB, Product HO, Production training & monitoring, CA & PA activities, reducing warranty failure rate.

Project Name : **AKAS TERUMAX (SyringePump) Company**

: AKAS Medical Equipment, Chennai.

Technology Used : Controller P80C552, EEPROM 93C46, LED Display, DC motor, Keil tool.

Project Description : Syringe Pump used in hospital ICU & CCU to deliver drugs to the patient at precribed rate for the mentioned time. The basic operation is around the motor and by controlling motor speed the accuracy will be achieved. Keypad and displays used for user interface.

Team Size : 5 Members

My Role : Project In charge, Design & Verify the hardware, Preparing PCB, Product HO, Production training & monitoring, CA & PA activities, reducing warranty failure rate.

Project Name : **AKAS INFUMAX (Infusion Pump) Company**

: AKAS Medical Equipment, Chennai.

Technology Used : Controller P89V51RD2BN, EEPROM 93C46, 2x16 LCD, DC motor, Keil tool.

Project Description : Infusion Pump used in hospital ICU & CCU to deliver diluted drugs or saline to the patient at precribed rate for the mentioned time. The basic operation is

around the motor and by controlling motor speed the accuracy will be achieved. IR based drop sensor used for the feedback. Keypad and displays used for user interface.

Team Size : 5 Members

My Role : Project In charge, Design & Verify the hardware, Preparing PCB, Product HO, Production training & monitoring, CA & PA activities, reducing warranty failure rate.

Other Completed Projects :

AKAS PEDIAMAX (Syringe Pump)	AKAS Medical Equipment,
Chennai Syru 410 (Syringe Pump)	AKAS Medical
Equipment, Chennai AKAS ENSURE (Feeding Pump)	AKAS
Medical, Chennai	
Silicone Oil Injector	AKAS Medical, Chennai
Oxipro (Digital Pulse Oximeter)	AKAS Medical, Chennai
Automation Unit for DM & RO plants (using Microcontroller & PLC)	KOMAL Industries Ltd, Mumbai.

EDUCATIONAL & PROFESSIONAL CREDENTIALS

ME APPLIED ELECTRONICS, Sathyabama University, Obtained 76% (2010 - 2012)

M.Sc., ELECTRONICS, Christhu Raj College, Trichy. Bharathidasan University, Obtained 72% (2002-2004)

B.Sc., INDUSTRIAL ELECTRONICS, Kurinji College Trichy. Bharathidasan University, Obtained 62% (1999- 2002)

Name of Father : D.Jayasingh
Date of Birth & Material Status : 03-01-1982 & Married
Nationality : Indian.
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