PRABHAKARAN.G +971 52 7662274

gpkaran90@gmail.com



Career Summary

Versatile E&I professional with 3 years' experience in conceptualization, development and maintenance of ELV products and solutions. Expertise in embedded system, power supplies and automation. Diverse knowledge in instrumentation.

Experience

Embedded System Engineer

MN Electronics, Bangalore, India

June 2015 - Dec 2015

- ELV Electronic hardware design and development.
- Troubleshooting of ELV system.
- Design and testing of PCB.
- Supervised prototyping and PCB assembly.

Project Engineer

EMBIT Technologies, Bangalore, India

Nov 2013 - May 2015

- Led multiple embedded system projects like SBC, DPM, DL, ePM etc,.
- Performed Research and Development in electronic testing instruments for automotive industries.
- Firmware development of 8-bit Micro-controller. Programmed PLC's.
- Prepared and reviewed technical documents.
- Managed product installation team.
- Delivered technical support to customers.

Graduate Engineer Trainee

MN Electronics, Bangalore, India

June 2012 - Feb 2013

- Design and developed low voltage power supplies (Linear, SMPS).
- Designed 2-layer PCB. BOM generation and procurement.

Technical Skills

Hardware	: ELV Electronics	Power supplies	PCB design		
Programming	: Embedded-C	PLC & SCADA	Java		
Tools	: Arduino	Cadence OrCAD	Proteus	MPLAB M	AS Office
Protocols	: I2C, SPI	MOD, CAN	Zigbee	TCP/IP	
Operating Systems	: Windows	Linux			
Educational Quali	fications				
PG Diploma in Automation and SCADA		CDAC, Bangalore	GPA: 6.90	Feb 2013 - Aug 2013	
B.E in Electronics and Instrumentation		Anna University, Chennai	GPA: 7.49	Sep 2008 - April 2012	
HSC in Science		TN State Board, Chennai	GPA: 8.40	March 2008	
SSC in Science		TN State Board, Chennai	GPA: 9.06	March 2006	
Projects					

Projects

Ad-FIRE ALARM SYSTEM with GSM MN

MN Electronics, Bangalore

Sep 2015 – Dec 2015

Fire detection system with GSM for remote areas. Configured with various detectors like Smoke, Thermal, Gas etc., Serial communication(RS-485) for event logging.

- Prototyping and real-time field testing of FAS. Hardware design and development.
- Programmed firmware of Arduino.

Tools – OrCAD, Proteus, Arduino, Terminal

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ACCESS CONTROL SYSTEM-RFID+BIOMETRIC

June 2015 - Aug 2015

User configurable ACS, RFID+Fingerprint authorization with RS-232. Optional PIR sensor for automatic door control.

- Product development of ACS. Installation and maintenance.
- Programmed firmware of 8-bit Micro-controller.

Tools - Proteus, Arduino, Terminal

SMART BATTERY CHARGER

EMBIT Technologies, Bangalore

Sep 2014 - Jan 2015

Alterable Voltage & Current charger with USB data logging facility. Serial communication(RS-232) for data acquisition.

- Design and developed electronic hardware of power supply, USB Data Logger.
- Integration of DPM & DL with charger.

Tools - OrCAD, Proteus, PI Expert

BLE v.4.0 UNIVERSAL CONVERTER

Sep 2014 - Nov 2014

USB, Serial(RS-232/RS-485) to Blue-tooth converter for wireless automation in automotive.

- Prototyping of universal converter using Microchip's RN4020.
- Programmed firmware of 8-bit PIC.

Tools - Proteus, Mikro-C, Terminal

DIGITAL PANEL METER

June 2014 - Aug 2014

4 ½ digit four channel DPM powered with ICL7135 ADC and serial communication(RS-232/RS-485).

- Design and developed electronic hardware.
- Programmed firmware of Micro-controller for initial testing. Tools Proteus, Arduino

ELECTRONIC POWER METER

April 2014 - May 2014

Class-1 Digital power meter for single phase and three phase supplies with MODBUS.

- Designed 2-layer PCB of measurement card with DSP chip.
- OrCAD to Proteus design migration.

Tools - OrCAD, Proteus, PI Expert

EPM MOBILE ROBOT

JJCET, Trichy

Nov 2011 - April 2012

Zigbee based UGV for remote sensing of Temperature, Gas, Light Intensity and Humidity. USAR applications.

- Design and developed electronic hardware with 8-bit PIC.
- Configured & calibrated various sensors.

Tools - Proteus, CCS-C, Mikro-C, HyperTerminal

Technical Certifications

•	Pneumatic & Electro Pneumatic Control Systems.	Nov 2012
•	Process Automation using PLC & SCADA/HMI.	Oct 2012
•	Professional in Electronic Design Automation.	March 2012
•	Post Diploma in Hardware Technology.	Nov 2010
•	In plant Training at NLC-Thermal power station.	Dec 2009
•	Higher Diploma in Computer Applications.	June 2007

Achievements & Participation's

Volunteer of National Service Scheme

July 2006 - Feb 2010

Regional level winner of Chutti QuizWiz-05

Nov 2004

Personal Profile

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DOB - 4th March 1990 Passport Number - L6429016

VISA Status - Visit valid till 10th March 2016 Website - in.linkedin.com/in/gpkaran

Nationality - Indian

Languages Known - Tamil, English Home phone - 91-9629144140

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