



Soumen Chatterjee, Embedded System Design Engineer

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DETAILS

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DATE / PLACE OF BIRTH

12-Feb-1982
Kolkata

NATIONALITY

Indian

SKILLS

Embedded Systems - Low
Level Driver Development

ARM, AVR, dsPIC, TI
C2000 DSC, Renesas Synergy,
STM32

Circuit Design - Schematic
Design - PCB Layout - Altium
Designer - Mentor Graphics

Embedded C , C++, RTOS:
TI-RTOS, FreeRTOS,
Microsoft ThreadX

Power Supply - SMPS -
Battery Charger

Mixed Signal - Sensor Based
Application - Data Logging

LANGUAGES

English

Hindi

Bengali

HOBBIES

Photography

PROFILE

Passionate and experienced Embedded System Design Engineer with over 12+ years of experience providing Design and Development Support for Embedded and Power Electronics based systems.

Strong Sense of Electronics Hardware and Embedded Firmware based System Design using Embedded C/C++ & RTOS.

EMPLOYMENT HISTORY

Embedded Design Engineer – Project Leader at M. B. CONTROL AND SYSTEMS PVT. LTD., Kolkata

September 2020 — Present

- Design and Development of PolyPhase Multifunction Energy and Power Quality Monitoring Device.

Electronics Design Engineer at A.R. TECHNOPACK PVT. LTD., Kolkata

September 2017 — August 2020

- Design and Development of various sensors and timer based circuits for packing machines.
- Motor Control Design for Industrial Stepper & BLDC Motors.

Embedded Electronics Design Engineer at ULTRA ELECTRONICS PVT. LTD., Kolkata

April 2012 — May 2017

- 25 KW Electronic Regulator Cum Rectifier Unit Rev 3.0 for Indian Railway.
- 5 KW DSP Based Pure Sine Wave Solar Inverter with IGBT Based Static Change Over Switch.
- Design and Development of Energy Saving BLDC Fan for Indian Railway.
- Design and Development of LED Signal Lamp for Indian Railway.
- Design and Development of DSP Based Regulated Battery Charger of 4.5 KW.
- R & D Support for many existing projects.

Software Engineer - Embedded Power Electronics at STESALIT LTD, Kolkata, Kolkata

July 2009 — March 2012

- 6.5 KW DSP Based Regulated Battery Charger for Indian Railway.
- 2.5 KVA Sine-Wave inverter for Indian Railway.
- LED Based Emergency Light Unit for Indian Railway.
- Engine Head Mount LED Flasher for Railway.
- 100 VA Sine-Wave Static inverter for Indian Railway.

EDUCATION

Diploma, Central Calcutta Polytechnic College (Government of West Bengal), Kolkata

April 2007 — May 2011

4 Years Full Time Diploma in Electronics and Telecommunication Engineering (Evening Section)

COURSES

Pre-Basic Lab Training Program, The Institution of Electronics and Telecommunication Engineers - IETE

March 2004 — September 2004

Embedded System Design Using Microcontrollers, MCKV INSTITUTE OF ENGINEERING

December 2006 — January 2007

Full Stack Web Development (MERN Stack) using HTML5, CSS3, JavaScript, Bootstrap, NodeJS, SQL and NOSQL using MongoDB - , The App Brewery - London, UK

March 2020 — August 2020

INTERNSHIP

Electronics Design Engineer - Trainee at ULTRA ELECTRONICS PVT. LTD., Kolkata

April 2006 — September 2008