

Carolene Prem Leela

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Professional Summary

Highly experienced Multi-skilled Engineer with **6+ years** of experience in embedded programming and full-stack development, having handled **7+ teams** and completed **75+ projects**. Skilled in EV and EVSE manufacturing, full-stack development, and versatile across various domains.

Technical Expertise

Languages: Embedded C,C,C++(6 years),Java(3 years),PHP(3 years),Python(1 year),Assembly(1 year)

Servers : MySQL,DBMS(6 years),Cloud Servers(6 years),AWS(2 years),Dedicated Servers(1 year)

Tools: Qt (cross-platform), MP-Lab,Proteus,KEIL micro Vision, Android Studio,Atmel Studio, CCS.

Protocols : RS232,RS485,SPI,I2C,CAN,MODBUS,OCPP1.6J, ETHERNET IP,MQTT

Controllers: Atmel, Analog Devices, Nuvoton, Texas Instrument, Microchip, NXP, Raspberry PI.

OS,PM & VC: Windows, Linux, IOS,RTOS,Git,Slack,google sheets

Working Experience

PROJECTS

Full Stack Developer

Tuckermotors Pvt Ltd, Madurai | [LINK](#) | FEB 2020 - MAY 2024

- **API Developer** -Automated payments and activities in API for CMS and Android apps (2022)
- Spearheaded **full-stack development**, embedded programming, and hardware testing for a **new product launch** during the Covid lockdown.- HTML,CSS,JavaScript(Front-End),MySQL,REST API(Back-End)
- Led **CMS & web development department** using **Agile** methodology (2021)
- **Android Developer** -App development for EV Stations [Android Apps on Google Play](#) (2020)
- Implemented OCPP Protocol in server & hardware,Worked on EVSE Protocols(CCS2,GBT, ACTYPE2)
- Payment gateway Integration- EV app and website order payments (RAZORPAY,PAYTM)

Embedded Engineer

Firstcall Automation Pvt Ltd, Madurai | [LINK](#) | JUL 2018 - FEB 2020

- Promoted to **DB & web hosting admin** and **Team Lead** for EVSE development from scratch (2020)
- Led case study, protocol testing, and **R&D** for the company's new **EV Charging station** manufacturing
- Reduced company expenditure on third-party software and hardware for solar **SCADA** plants (2019)
- Completed first project (AMF) within a week, earning a **50% salary hike** in the first month (2018)
- SCADA Control Boards: Design verification and programming, Industrial SCADA Projects
- Electrical Projects:VFD (Variable Frequency Driver),AMF (Automatic Mains Failure)
- Home Automation Projects:**IOT** using Wifi,Zigbee,Lora,BLE,BSMS

Education & Certification

B.E. ECE 74%(Anna University) **PA.College of Engineering,Pollachi** | [LINK](#) | JUN 2014 - MAY 2018

Java & SLDC Fundamentals. **Great Learning** | SEP 2024 - OCT 2024

Infosys Campus Connect(Complete WebDevelopment) **Infosys Limited** | JUL 2017 - OCT 2017

Python **PA.College of Engineering,Pollachi** | FEB 2017 - MAR 2017

Embedded Systems **PA.College of Engineering,Pollachi** | AUG 2016 - SEP 2016

Awards & Publications

Awarded "**Best Support Engineer**" for 5 years completion
Vehicle Control System Implementation using CAN Protocol

JAN 2024
IJERT | [PUBLICATION](#) | APR 2018