Neeli Ajay ⭐ **Featured**

Software Engineer seeking roles in Software Development,IT Project
Management,Requirement Gathering,Solution Designing,Software
Design,C,C++,C#,Python,Java,Assembly,Shell
Script,SVN,GIT,Bugzilla,TCP/IP,CoIDE,Eclipse,Keil uVision

Current Designation: **Software Engineer**

Current Company: **Danlaw Technologies India Limited**

Current Location: **Hyderabad / Secunderabad**

Pref. Location: **Hyderabad**

Functional Area: IT Software - Application Programming /
Maintenance

Role: **Software Developer**

Industry: **IT-Software/Software Services**

Marital Status: **Single/unmarried**

Key Skills: Software Engineer,Software Developer,Software Development,IT Project Management,Requirement
Gathering,Solution Designing,Software Design,C,C++,C#,Python,Java,Assembly,Shell
Script,SVN,GIT,Bugzilla,TCP/IP,CoIDE,Eclipse,Keil uVision

Total Experience: **4 Year(s) 3 Month(s)**

Notice Period: **3 Months**

Highest Degree: **B.Tech/B.E.
[Electronics/Telecommunication]**

Verified :   **Phone Number |**   **Email - id**

Last Active: 22-Jan-21   Last Modified: 22-Jan-21

Summary

Having 4+ years of experience in design and development of embedded software
Good experience using C language on RTOS based systems
Good experience on working with 32 bit ARM microcontrollers
Good experience on communication protocols CAN, UART, TCP/IP, SPI, I2C
Good experience on developing BLE, USB, CAN ISOTP, UDS, WIFI, TCP/IP stack for various microcontrollers
Good experience in software design, development of C#, .Net Windows Form applications
Good knowledge on Visual Studio, worked with .Net framework 4.0, 4.5
Good experience in design, developing automated test tool for embedded software testing using C#, Python, C++, C
Good experience in developing API in C,C++ and preparing interface classes for C#, .net applications
Good experience on working with GPS modules
Good experience on working with sensors using ADC, LCD
Good experience on working with GSM, LTE modules

Work Experience

Danlaw Technologies India Limited as Software Engineer
Oct 2016 to Till Date

Project
TCU
Company
Danlaw Technologies India Limited
Client
Ashok Leyland
Microcontrollers
NXP S32K144, Quectel EC25, Nordic NRF52832
Duration
Oct 2018 to Dec 2019
Description
TCU is Telematics Control Unit which is used as a Vehicle ECU in Ashok Leylands BS6 vehicles. It is used to log Vehicle
CAN Bus data.
It is used to generate custom alerts based on the CAN Bus data received and post to UDP Server using 4G modem

It will generate alerts as per AIS 140 standard
It will log Accelerometer data using LSM6DS3 ACCEL module
It will log Vehicle Location History using L89 GPS module
It is used to perform Vehicle Diagnostics using USB and BLE
It is used to flash Vehicle ECUs using USB
It is used to flash Vehicle ECUs using FOTA
It is used to perform Remote Diagnostics of Vehicle ECUs using TCP Server
Role
Software Engineer
Responsibilities
Develop UART interface, driver layers for S32K144
Develop Passthrough Protocol for interfacing CAN using UART, USB and BLE
Develop USB application, interface layer to support as Passthrough to Vehicle CAN data
Develop BLE application, interface layer to support as Passthrough to Vehicle CAN data
Go to Client's Location for giving a Demo on Passthrough CAN, UDS, AIS, CAN based alerts on Hybrid, EV, EDC type
vehicles
Develop FOTA application layer using UART for BLE
Develop FOTA application layer to support linux SDK Update in EC25
Modify Linux Kernel Driver to support USB 2.0 Full Speed
Develop Automated Test Tool using WinForms for production testing where it does flashing using JTAG(J-Link), Perform
IO Tests using NI DAQ, BLE strength using Bluetooth adapter, post test result in backend database using https and mysql
connections, print label using a printer interface
Modify Linux internals to support ssh, openssl and sftp server
Cross Compile libraries for arm embedded linux
Develop USB application layer to support device as a sftp server via PPP connection
Tools and Platforms
S32 Design Studio, Eclipse, C, C#, WinForms, Visual Studio, linux shell script, Java, Android Studio

Project
Spray Controller
Company
Danlaw Technologies India Limited
Client
Mahindra Mahindra
Microcontrollers
NXP S32K144, Quectel EC25, Nordic NRF52832
Duration
Aug 2018 to Sep 2018
Description
Spray Controller is used in Mahindra Tractors at farms to spray pesticides automatically when the vehicle is moving in
configured Geo-Fence polygon
Role
Software Engineer
Responsibilities
Implement Geo-Fence determining logic based on GPS Coordinates
Implement an API to control Sprayer Machine (Analog Voltage)
Implement a protocol in device to communicate with BLE Mobile App to save Geo-Fence polygons, Control Spray, Send
data to display in GUI
Tools and Platforms
S32 Design Studio, Eclipse, C, Java, Android Studio

Project
DL2534
Company
Danlaw Technologies India Limited
Client
Volvo
Microcontrollers
ST's STM32F072CB and Nordic's NRF52832
Duration
June 2018 to July 2018
Description
DL2534 is a Vehicle Diagnostics Interface device for Volvo Bus, which is used to flash Vehicle ECUs, read DTCs of ECUs
using USB and BLE . It acts as a J2534 Passthrough device using USB and BLE.
Role
Software Engineer
Responsibilities
Modify the CAN ISOTP interface, CAN driver layer to support STmin Tx and Rx as 0 ms
Tools and Platforms
Keil uVision, C
Project
ECU OTA 4G
Company
Danlaw Technologies India Limited

Client
Ashok Leyland
Microcontrollers
NXP's LPC1768, Qualcomm's mdm9207,
Duration
Feb 2018 to Mar 2018
Description
ECU OTA 4G is a proof of concept project to Ashok Leyland demonstrating Flashing Vehicle ECUs remotely from server
communication using a 4G device
Role
Software Engineer
Responsibilities
Implement the Parsing logic of Intel Hex file
Implement UDS Programming Session flow
Tools and Platforms
Eclipse, C

Project
ConnectALL
Company
Danlaw Technologies India Limited
Client
Ashok Leyland,
Danlaw Xicheng, Danlaw Electronics Assembly
Microcontrollers
ST's STM32F072CB and Nordic's NRF52832
Duration
Dec 2017 to June 2018

Education

UG: **B.Tech/B.E. (Electronics/Telecommunication)** from **VIT University, Vellore** in **2015**

IT Skills

Skill Name	Version	Last Used	Experience
C, C++, C#, Python, Java, Assembly			
Shell Script			
CoIDE, Eclipse, Keil uVision			
Visual Studio, DevC++, PyCharm			
Matlab, Arduino, CC Studio			
IAR Workbench, Android Studio			
ST-Link, J-Link, SWD, GDB			
Windows, Linux, RTOS(CoOs, FreeRTOS)			
UART, SPI, I2C, CAN (ISOCAN, J1939, UDS)			
BLE, USB, TCP/IP, WIFI, GPS(NMEA)			
SVN, GIT, Bugzilla			

Languages Known

Language	Proficiency	Read	Write	Speak
English				
Hindi				

Telugu

Projects

Project Title: AL LCV
Client: Ashok Leyland
Nature of Employment: Full Time
Duration: Oct 2020 - Till Date
Onsite / Offsite: Offsite

Skill Used: Eclipse, C
Role Description: Develop WIFI application, interface layer using TCP/IP
Develop CAN Passthrough layer to support vehicle diagnostics using WIFI
Develop UDS based Diagnostics Session, Programming Session Application layer
Project Details: AL LCV is a telematics device to be used in Ashok Leyland Low Cost Commercial Vehicles. It logs the
Vehicle BUS CAN data and report to Server using TCP/IP.
It performs diagnostics of Vehicle ECUs using WIFI, Bluetooth.
It logs the Vehicle location history using GPS.
It generates Vehicle alerts using Accelerometer. (Impact, Tilt, Rash Turn)

Project Title: Vahan
Client: Ashok Leyland
Nature of Employment: Full Time
Duration: May 2020 - Sep 2020
Onsite / Offsite: Offsite

Skill Used: Eclipse, C
Role Description: Develop GPS interface, driver layer to parse NMEA messages from L89 GPS Module using UART protocol
Develop ACCEL application, interface, driver layers to read data from LSM6DS3 Accelerometer Module using I2C protocol
Project Details: Vahan is a telematics device designed to support AIS 140 alerts in Commercial Vehicles

Project Title: Amber
Client: Royal Enfield
Nature of Employment: Full Time
Duration: Jan 2020 - Feb 2020
Onsite / Offsite: Offsite

Skill Used: Eclipse, C, WinForm, C#, Python, Visual Studio
Role Description: Develop FileSystem application, interface layer to save MQTT data on W25Q64J Serial Flash Module using
SPI protocol
Develop FOTA application layer to support Firmware Upgrade from FTP Server
Project Details: Amber is a telematics device to be used in Royal Enfield MotorCycles to log Vehicle Location History, Vehicle
Diagnostics Information using UDS and communicating to Mobile APP via BLE, post data to Server using MQTT

Affirmative Action

Category: General

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time