

**ASHISH GEDELA**

**EMBEDDED ENGINEER**

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### PROFESSIONAL SUMMARY:

Highly motivated automotive engineer with experience in the automotive domain with programming languages such as C and C++. Having good Knowledge of embedded systems and a passion for developing and designing softwares. A quick learner with excellent problem-solving skills, eager to contribute to innovative projects and gain practical experience in the field of embedded development.

### PROFESSIONAL EXPERIENCE:

**L&T Technology Services(LTTS) | Engineer**

**March 2024 -Dec 2024**

- Underwent comprehensive training in C++ programming (including C++11 and C++14 standards) and Linux system operations.
- Gained hands-on experience with Standard Template Library (STL), enhancing proficiency in data structures, algorithms, and efficient memory management.
- Learned industry standards and best practices for software development, object-oriented programming (OOP), and multi-threaded programming.
- Built a strong foundation in Linux command-line operations and system debugging.
- Successfully completed training modules focused on debugging techniques, code optimization, and problem solving using modern C++ and Python.
- Collaborated in simulated environments to apply theoretical knowledge to practical scenarios, improving skills in code validation, software testing, and error handling.

### PROFESSIONAL TRAINING:

- Advanced Course in **Embedded Systems** at VECTOR INDIA, Bengaluru.

### TECHNICAL SKILLS:

**Programming Languages** : C, Modern C++(11&14), Embedded C, Linux Internals, Python.

**Micro-Controller & Protocols** : ARM(LPC2129), UART,I2C,SPI,CAN.

**IDEs & Tools** : Keil IDE, GCC, Visual Studio Code, CANoe 10.0 SP5, Matlab.

### PROJECTS:

#### Body Control module In Vehicle using CAN Protocol.

**Institute : Vector India Pvt.ltd**

**Duration : 3 Months**

**Description :** Developed and simulated a Body Control Module to manage light and door control functionality. Designed and implemented communication between four nodes: Body Control, Central Lock, Front Light Control, and Rear Light Control. Enabled seamless interaction of functionalities through body control switches, ensuring accurate simulation of vehicle operations.

**Tools & Language : Keil IDE & Embedded C.**

**Switched Inductor and Voltage Multiplier based High Gain Non-isolated DC-DC Converter for DC Micro Grid.**

**Degree : M.Tech**

**Duration : 12 Months.**

**Description :** Renewable energy sources such as solar photovoltaics are integrated to DC Microgrids. The output from a PV panel is very less. It will be in the order of 12V to 72V. This low output voltage must be stepped up to 380V for practical grid applications. Due to low output voltage, a high gain dc-dc converter is needed to connect to dc microgrid. In this project, a high gain DC-DC converter with 36V/380V, 100W is proposed.

The proposed topology employs Switched-Inductor (SI) and Voltage Multiplier Capacitor Cell (VMC) for gain extension mechanisms. The simulation of proposed converter is done using MATLAB/Simulink.

**Tool : Matlab|Simulink.**

**EDUCATION:**

<b>M.Tech in Power Systems Control and Automation.</b>	<b>2023</b>
Nadimpalli Satyanarayana Raju Institute of Technology(NSRIT),Visakhapatnam, Andhra Pradesh,India. Percentage: 69.99%	
<b>B.Tech in Electrical and Electronics Engineering.(EEE)</b>	<b>2018</b>
Nadimpalli Satyanarayana Raju Institute of Technology(NSRIT),Visakhapatnam, Andhra Pradesh,India. Percentage: 75.63%	
<b>Diploma(EEE)</b>	<b>2015</b>
Sir,C.R.Reddy polytechnic,Eluru, Andhra Pradesh, India. Percentage: .83.09%	
<b>Secondary School Certificate(S.S.C)</b>	<b>2012</b>
Little Flowers EM High School,Pendurthi, Andhra Pradesh, India. CGPA : 8.3	

**ADDRESS:**

**DOB:** 29/05/1997

**Marital Status:** Married

**Permanent Address:** 17-42/2, Veterinary Hospital backside,  
Pendurthi,Visakhapatnam,Andhra pradesh-531173