

# Certified in Embedded Systems and IoT

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## OBJECTIVES

A self-motivated and results-driven graduate, eager to contribute to a reputable organization while continuously enhancing my skills and knowledge. I am passionate about applying my earned skills from concepts to solve real-world problems as technical expertise (embedded systems).

## SKILLS

- ✧ **Programming Language:** C, Data Structure (Basic), C++, Embedded C, and Python
- ✧ **Microcontrollers:** AVR - ATmega328P, LPC1768 (ARM-based Architecture), and Raspberry Pi
- ✧ **Embedded System Development:** Arduino
- ✧ **Embedded Protocols:** UART, SPI, I2C, and CAN
- ✧ **Tools and IDE:** Keil, Arduino IDE, and Proteus
- ✧ **Academic:** Digital Electronics and Control System
- ✧ **Others:** Socket Programming, and Linux
- ✧ **Knowledge About:** GIT, and SDLC

## PROJECTS

- ✧ **Shopping Gate Automation System with Arduino Uno and Raspberry Pi**  
**Smart Door openings** equipped with **IoT (Internet of Things)** technology can automatically sense human movements and environmental conditions to control store features like doors and lights.
- ✧ **Interfacing Sensor and Actuator with LPC1768 microcontroller**  
This project involves converting sensed (physical environment) data into digital format and controlling actuators according to it, using LPC1768 a 32-bit ARM-Cortex M3 (ARM architecture-based microcontroller).
- ✧ **IoT implementation with ATmega328**  
This project utilizes the ATmega328P microcontroller and ESP8266 (WiFi module), to implement an Internet of Things (IoT) system providing experience in sensor and actuator interfacing and data processing.

✧ **Central Messaging Hub**

Designed and implemented a system to display messages sent by an authorized mobile phone on a Liquid Crystal Display (LCD) unit.

✧ **Telecom Billing System**

Implemented the C project that allows to use of the data file handling concept to store and manage the data of multiple users. Also, this software helps telecom providers automate customer billing services.

✧ **Software for Saving Bank Account**

A C++ project banking system implemented using software for basic validation of username and password, then performing different operations such as deposit, withdrawal, and balance checking.

### CERTIFICATION, TRAINING, AND ACHIEVEMENTS

- ✧ Certified and Trained in Embedded Systems and IoT from ISM UNIV, Bengaluru, an ISO 9001:2015 certified embedded training institute.
- ✧ Being among the top 10 students in academic years, I had the opportunity to receive training from BSNL (Jabalpur) and even completed the training successfully.
- ✧ Demo on Switching and Transmission (Optical Fiber communication) from BSNL (Jabalpur).
- ✧ Vocational training on Computer Networking for 2 weeks from BSNL (Jabalpur).

### EDUCATION QUALIFICATIONS

Qualifications	Year	CGPA/Percentage
Bachelor of Engineering in Electronics Communications Engineering Oriental Institute of Science and Technology	2016	8.53
Senior School Certificate Examination, CBSE Nirmala Convent High School	2012	76.00
Secondary School Examination, CBSE Nirmala Convent High School	2010	8.60

### LANGUAGE PROFICIENT

- ✧ English
- ✧ Hindi