

Harsh Soni

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Profile

Embedded Systems Engineer with a strong foundation in embedded technologies and a comprehensive understanding of microprocessors and microcontrollers, operating systems (OS), real-time operating systems (RTOS), C programming, device drivers, and IoT solutions. I am eager to leverage my expertise in these areas to drive innovation and efficiency in embedded system design.

Professional Experience

2023/01 – 2024/02 Jabalpur, India	Production Officer <i>Sinclus Engineering Consulting</i> To lead and manage the high risk LPG production processes in compliance with safety and industry standards for Bharat Petroleum Corporation Limited, Bhitoni Plant(M.P). Managed operations and man power at the bottling plant and upkeep safety standards. In the safety drills i was given responsibility of combat officer to manage and coordinate the safety drill.
2021/12 – 2022/12 Indore, India	Trainee Engineer <i>Bharat Petroleum Corporation Ltd (BPCL)</i> Worked as part of plant operations and maintenance squad. Primary role include planning maintenance and calibration of equipment and supervise the operations with standard safety protocol and also be a part of automation team.`

Academic Projects

2024/06 – 2024/07 Pune, India	Project at CDAC  <i>Smart door locking system using STM32 Discovery Board</i> The STM32 Discovery board with the STM32F407VGT6 microcontroller drives an advanced smart door lock system, merging security with convenience. It integrates RFID using SPI, a 4x4 keypad, and an I2C LCD display for robust access control. RFID ensures secure door access, with the keypad serving as a manual backup.
2020/01 – 2020/04 Indore, India	Project at B.Tech <i>Ozone Water Treatment Generator</i> Utilized high frequency transformer and aluminum conductors to produce bubbled ozone which is then used to treat water.

Skills

Linux OS	● ● ● ● ●	Communication Protocols: SPI, I2C, UART, CAN	● ● ● ● ●
Embedded C	● ● ● ● ●		
Bare Metal programming	● ● ● ● ●	Micro-controller Interfacing	● ● ● ● ●
Git	● ● ● ● ●	RTOS	● ● ● ● ●
OOP's	● ● ● ● ●	C++ Programming	● ● ● ● ●
		ARM cortex -M3/M4	● ● ● ● ●

Education

2024/03 – 2024/08 Pune, India	Post Graduation Diploma in Embedded System Design <i>Centre for Development of Advanced Computing (CDAC) - Sunbeam</i>
2016/08 – 2020/09 Indore, India	Bachelor of engineering in electrical and electronics <i>IES IPS Academy</i>

Certificates

- The National Cadet Corps (NCC) 'A' Certificate
- The National Apprenticeship Certificate (NAC)
- Diploma in embedded system design

Interests

- Mental And Physical Exercises,
Playing Volleyball, Learning
New Technologies.