Dhruval P. Shah

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Objective

To pursue a master's degree in an innovative and challenging field that will maximize opportunities to implement my knowledge and full utilization of my capabilities to not only enrich my skills & satisfy my urge for learning but also lead to overall personal development.

Academic Profile

Name of Exam	Passing Year	Institute	Grade
Bachelor of Engineering in Electronics & Communication	2013	Gujarat Technological University	7.4-CGPA 7.39-CPI
H. S. C.	2009	Sunny Sky English High School	66.20%
S. S. C.	2007	C.U. Shah English High School	76.15%

Academic Projects

Final year Project at Vadinar Power Company Limited (Essar Power):
Control System of Boiler

In this project, along with company staff, we designed control systems to monitor and control different parameters of the boiler like steam pressure, drum level, drum pressure and burner management using Yokogawa Centum VP software. This system is controlled a using distributed control system in which the inputs from the field comes into a Marshalling cabinet and further goes to the controller and finally data is transmitted to the human machine interface (HMI) station using a Ethernet cable. Using this system various parameters of the power plant can be controlled and monitored from the HMI station. This type of system is designed to increase the efficiency and accuracy of the control system.

FM Transmitter and Receiver Kit

In this first the signal frequency is modulated and then transmitted through transmitter and further on the receiver side this FM signal is being received by appropriately tuning the frequency tuner. And this received signal is then demodulated to recover the original signal. This project improved my understanding of the working of transmitter receivers and signal modulation.

One month internship at IIT (Madras):
Diode and MOSFET internal resistance in Boost converter

In this project the losses due to different components like power diode and power MOSFET are evaluated. These components are included in the boost converter circuit and due to the internal resistance of power diode and power MOSFET, the actual output voltage of the DC boost circuit decreases compared to the theoretical voltage. Thus, monitoring such losses will improve the efficiency of boost converter circuits.

Buzzer Alarm using 555 IC
This project is basically a negative edge trigger circuit in which if the negative pulse is given to the trigger pin of the 555 IC circuit, a buzzer triggers for a specific amount of time. This amount of time can be varied by changing the value of the resistor and capacitor. Such circuits can be used in manufacturing or other industries to alert malfunctions or in homes or autos for security.

Skill Set	
Programming Languages	Assembly Language-8085/8051, C, C++
Hardware	Electronic hardware
Tools and Packages	Keil, Turbo C
Operating Systems	MS Windows XP/7

Co-Curricular Activities

- Participated in a national level workshop on **Robotics** conducted by **Gridbots** at C.U.Shah College of Engineering and Technology
- Participated in case study and quiz at **ICSQCC;** an International symposium conducted by City Montessori School & Degree College in Lucknow, Uttar Pradesh
- Presented a paper on "Digital Display Devices" at C.U.Shah College of Engineering and Technology
- Visited the Doordarshan Kendra (National Television Broadcasting Station), Ahmedabad where I learnt about how radio and video signals are broadcasted.

Extra-Curricular Activities

- Qualified for the **National Level Science Olympiad Exam.**
- Member of the Core Planning Committee in **Adroit;** a national level symposium held at C. U. Shah College of Engineering and Technology
- Coordinated an **official event** at **ESSAR** focusing on process safety at their plant
- Attended a workshop on personality development offered by the **Cambridge University**

Areas of Interest

Wireless Communications ,Embedded systems, Automation and Robotics