**Sanjeet Deshwal**

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*Embedded Systems Engineer turned MERN Stack Developer seeking an Entry-level Web Developer position to launch a career in web development.*

**CORE SKILLS AND KNOWLEDGE**

* MERN Stack; HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS, ReduxJS, MongoDB, Bootstrap, GitHub
* C, Embedded C, Basic knowledge of C++, PCB Designing
* Visual Studio Code, AVR Studio, KEIL µVision, MPLAB Xpress, Proteus, Autodesk EAGLE, Altium Designer, Protel
* Microcontrollers: ATmega8, PIC16, ARM7, 8051, MSP430, Arduino UNO; Raspberry Pi, DMM, Function Generator, Oscilloscope
* SPI, UART, I2C Protocols
* Project Managements and Planning

**WORK EXPERIENCE**

* **Embedded Systems Engineer** **Excel Technologies, Noida** 02/01/2019 to 21/03/2020 (15 months)
* Designed various Engineering Trainer Kits' PCBs in Altium Designer according to customer requirements
* Developed firmware code in Embedded C for 8-bit and 16-bit microcontrollers
* Utilized software tools such as AVR Studio, Keil µVision, MPLAB IDE, Arduino IDE, Proteus, Protel, and hardware tools including DSO, Function Generator, DMM, Soldering Station
* Performed troubleshooting and final testing of products at the component level
* Maintained product documentation and prepared working manuals
* Conducted workshops for engineering colleges

**EDUCATION**

* **Bachelor of Technology (Electronics and Communication Engineering)**

DCRUST, Murthal, Haryana August 2013-July 2017

**TRAINING**

* **MERN Stack Web Development Course** PrepBytes.com December-2022 to April-2023 (5 months)
* Gained proficiency in HTML, CSS, JavaScript, Bootstrap, React.JS, ExpressJS, Node.JS, MongoDB
* Designed and implemented various web projects utilizing HTML, CSS, JavaScript & MERN stack

* **Embedded System Course** Sofcon India Pvt. Ltd. June 2018-Sept 2018 (3 months)
* Acquired skills in PCB Designing and programming microcontrollers including PIC16F877A, LPC2129, ATmega 8, and Arduino Uno
* Implemented peripheral interfacing, timers, interrupts, PWM, ADC, and communication protocols such as UART, SPI, TWI, and I2C

**PERSONAL PROJECT EXPERIENCE**

* Digital Clock with reminder using HTML, CSS and JavaScript
* Webpage designed with HTML for styling
* Blog website created using React.JS, Bootstrap, NodeJS, and MongoDB
* E-commerce website developed using React.JS, Redux, and Bootstrap
* PIR Sensor based Intruder Alarm System using ATmega8
* Water Flow Volume Measurement Tool using flow sensor and Atmega8
* Gas Leakage Detection System using MQ-5 sensor and AT8951RD2
* Temperature Controlled DC Fan using PIC16F877A Microcontroller
* Humidity and Temperature detection system using AT8951RD2 and DHT11
* Alarm device using Raspberry Pi 3 B+ and Ultrasonic Sensor

**For MERN Stack Projects, visit GitHub profile:**https://github.com/Sanjeet0000