
Jitendra Suresh Dhawale

Development Engineer

📍 : 201, Laxmi Narayan Soc., kisan nagar 2, Wagle MIDC, Thane West, Maharashtra (MH) - 400604, India.

☎ : +91 98671 44597 E-mail : dhawalejitendra4@gmail.com

Objective:

"To explore theoretical knowledge and fun behind physics and electronics and sensors into practical world and use it to build innovative product to solve real life problems."

Key Skills:

- **Circuit Related** : **Schematic Drawing**, Datasheet analysis, component selection, **Circuit Design**, soldering, **Testing and troubleshooting**, **sensors**.
- **Coding Related** : C, C++, python, Arduino, MPLAB X IDE (Basic Level), SPI, I2C.
- **Other** : **Quality Check**, Project Report documentation, MS-Office, **Problem Solving**, logical thinking, Data Analysis.

Development Engineer (May 2018 - January 2020)

Applied Optical Technologies Pvt Ltd, Ambernath, Thane (ISO 9001:2008)

- **Manufacturer of Medical & industrial grade Fibre Optic Cables** of various shapes and form types.
- **Medical Surgery equipments and Lighting Solutions.**
- **Provider of customized Industrial lighting solutions** for process control and data acquisition.

Job Role:

To design and develop new electronic modules for controlling parameters of Medical Light Source such as intensity of light and make it smart using sensor circuits.

Job responsibilities:

1. As Circuit Development:

- **Data collection from internet** such as reference circuits, codes, articles and datasheets of ICs
- **Analysing data and drawing test schematic** on paper and reviewing it with a senior.
- **Validating circuit by prototyping** it on breadboard then on zero PCB.
- **Documentation of result and conclusion** obtained from test with appropriate format.

2. As firmware development:

- **Code development nessessary for interfacing** sensors, display components with 8-bit microcontrollers.
- **Modification of existing code** for development of new versions of module as per requirement of project.
- **Testing of developed code on test hardware circuit** build on breadboard or shouldered PCB.
- **Documentation of code, test points, and test result** for future development and troubleshooting purpose.

Academic Details:

- **Diploma in Industrial Automation** from **Liveware in Oct-2018** with Agg. 65.00%
- **B.Sc In Physics** from **Mumbai University** in **Aug-2018** with Agg. 68.37%
- **HSC (Science)** from Maharashtra Board in **June - 2015** with Agg. **73.85%**
- **SSC (Marathi)** from Maharashtra Board in **June - 2013** with Agg. **82.80%**
- **MS-CIT** computer course in **Oct-2013** with Agg. **91.00%**

Software Skills:

-
- ★ **Arduino IDE** ([Intermediate](#)) for programming Atmel's 8 bit microcontroller
 - ★ **MPLAB X IDE** ([Basic](#)) for programming Microchip's 8 bit PIC
 - ★ **Siemens Step 7** Software for PLC programming ([Intermediate](#))
 - ★ **WinCC Flexible** software for SCADA system and HMI programming ([intermediate](#))

Hardware Skills and Knowledge:

- ★ Used **8 bit microcontroller such as ATmega328p** (Arduino), ATtiny13a and ATtiny85 depending on project requirement.
- ★ Used various **display components** such as **OLED, 16x2 LCD, TFT color LCD**, 4-digit 7-segment displays along with 8 bit microcontrollers to add display features.
- ★ **Used sensors** such as **IR proximity switch**, PIR sensor, **temperature sensor (LM35, DS18B20, NTC)**, piezo-sensor, **photodiodes module** for smart products and **photometry application**.
- ★ **Built basic OP-AMP circuits** such as amplifier, comparator **for sensor design and** associated **signal conditioning** circuit such as high pass, low pass filter.
- ★ Have **knowledge of** working of **AC-DC converter, Linear regulators, SMPS** working and its type at basic level.
- ★ **Knowledge of use of DMM**, Digital Oscilloscope, **CRO, power Supply, soldering** technique, lab **safety standards of electronics product handling**.

Personal Details:

1. **Date of Birth:** [20th April 1998](#)
2. **Marital Status:** [Unmarried](#)
3. **Blood Group:** [B+ve](#)
4. **Nationality:** [Indian](#)
5. **Gender:** [Male](#)
6. **Language (Speak, Write, Read):** [Marathi, Hindi, English](#)