



WAGHMARE ABHISHEK MANIK MANISHA

B.E. - Electronics & Telecommunication Engineering

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EDUCATION

Don Bosco Institute of Technology Mumbai B.E. - Electronics & Telecommunication Engineering CGPA: 8.67 / 10.00	2020 - 2024
Wamanrao Muranjan Junior College 12 th HSC Percentage: 73.38 / 100.00	2020
Lokmanya Tilak English High School 10 th SSC Percentage: 81.20 / 100.00	2018

AWARDS AND SCHOLARSHIPS

- Certificate of Merit for winning the 3rd prize in 'INNOVEX - 2023' Poster Presentation based on TE Mini Project at Don Bosco Institute of Technology

INTERNSHIPS

Selec Controls Pvt. Ltd. Intern - Industrial Electronics Automation PLC (Programmable Logic Controller) - Created tutorial videos on PLC basics for internal and external stakeholders - Worked with industry professionals to learn basic ladder programming and communication protocols - Gained practical knowledge and expertise in automation and PLC systems - Developed strong communication skills to effectively convey complex concepts in a concise manner	11 Jun, 2022 - 14 Aug, 2022
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PROJECTS

Covid Data Analysis

Team Size: 6

Project Link: <https://tinyurl.com/yckbh4ux>

- Gathered dataset from Kaggle as a reliable source for COVID-19 data.
- Utilized VS Code as the software for coding and analysis.
- Conducted detailed analysis of COVID-19 data specific to the state of Meghalaya.
- Employed Python libraries such as pandas, NumPy, and matplotlib for data manipulation and visualization.
- Generated a comprehensive report based on the analysis of the dataset.

Number System Calculator

Team Size: 4

Project Link: <https://tinyurl.com/4wybpyfx>

- Developed a Number System Calculator application for decimal to binary, octal, and hexadecimal conversions.
- Utilized Scene Builder and JavaFX ecosystem to create a user-friendly interface.
- Incorporated convenient built-in functions like `(Integer.toBinaryString())`, `(Integer.toOctalString())`, and `(Integer.toHexString())` for accurate number system conversions.
- Emphasized user-friendly features such as drag and drop functionality and simplified button click actions, reducing the need for extensive coding.
- Generated a comprehensive project report.

Score Control Device

Team Size: 4

Project Link: <https://tinyurl.com/4r233ypw>

- Utilized microcontrollers including STM32 Nucleo F411RE, Arduino UNO, and Arduino ProMini.
- Developed a score counter device using embedded C programming language and Arduino IDE.
- Implemented logic for score increment, decrement, and reset functionalities.
- Integrated an 8x8 dot matrix display using SPI communication protocol.
- Utilized the NRF24L01+ transceiver for wireless communication.
- Interfaced a 128x32 OLED display using I2C communication protocol.

Design of PLC Timer System Based on FPGA For Industrial Automation System

Team Size: 8

Project Link: <https://tinyurl.com/4a27uay9>

- Developed a system for remote device control using an IoT cloud platform, integrating an ESP32 microcontroller and FPGA board.
- Utilized ESP32 microcontroller for internet connectivity and FPGA board for customized signal processing and control.
- Enabled remote control of devices through the IoT cloud platform, enhancing operational efficiency and reducing proximity requirements.
- Implemented Verilog programming language for FPGA code development and utilized Xilinx ISE software for configuration.
- Demonstrated expertise in IoT applications, microcontroller programming, FPGA development, and real-time device control.

Phone Number Tracker using GUI

Team Size: 2

Project Link: <https://tinyurl.com/mryrevc7>

- Developed a Phone Number Tracker application using Python and Tkinter GUI library.
- Implemented functionalities to track and retrieve important details of an individual based on their phone number.
- Provided specifications such as country, SIM operator, time zone, date & time, longitude, and latitude.
- Utilized libraries like phonenumbers, geocoder, timezone, timezonedfinder, pytz, and geopy.
- Demonstrated proficiency in GUI development, library integration, and data retrieval using Python.
- Presented a user-friendly interface with input validation and real-time data display.

ACHIEVEMENTS

- Academics: B.E (EXTC) - During 2nd year ranked among top 10 in class

CO-CURRICULAR ACTIVITIES

- Presented a Research Project titled "Score Control Watch" at the 17th Aavishkar Research Convention (Zonal Round) organized by the University of Mumbai.
- Participated in the 2-day Ham Radio Workshop and Fox Hunt organized by IEEE-DBIT and IETE-DBIT.
- Technical Head | IETE-ISF DBIT, Mumbai | Overseeing workshops and events on KiCad, Drone, and Embedded C.
- Technical Coordinator | IETE-ISF DBIT, Mumbai | Managing events like Proteus Workshop, Technical Treasure Hunt, and Technical Paper Presentation.
- Talks Volunteer | Colosseum DBIT, Mumbai | Organizing talk sessions and securing guest speakers for student events.
- Tech Volunteer | Hysteria DBIT, Mumbai | Managed sound system for cultural events, sports matches, and seminars, ensuring smooth operation of audio equipment.

EXTRA CURRICULAR ACTIVITIES

- Sports : DBIT Synergy (Intradepartmental): Cricket - 1st Place
- Sports : DBIT Triads (Interdepartmental): Cricket - 2nd Place
- Sports : Badminton Competition-Singles (Intraschool) - 2nd Place

PERSONAL DETAILS

Gender: Male

Marital Status: Single

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