

BHUKYA SRI KRISHNA

Mahabubabad, Telangana

+91-9701553370 bhukyasrikrishna920@gmail.com [linkedin.com/in/bhukya-sri-krishna-79062723b/](https://www.linkedin.com/in/bhukya-sri-krishna-79062723b/)

Profile Summary

- Proficient in Python, C, and C++, with expertise in developing robust software and GUIs tailored for production environments.
- Proven ability in debugging CAN data, storing trace data in the database and identifying root causes through effective diagnosis.

Relevant Coursework

- | | | | |
|-------------------|-------------------|-----------------|--------------|
| • C, C++ & Python | • CAN with Python | • OOPS | • Embedded C |
| • DSA with C++ | • Cloud Computing | • HTML, CSS, JS | • SQL, Excel |

Experience

TVS Motor Company Ltd – Software Engineer

June 2024 – Present

- Implemented Software Application for EOL Auto-Testing of TVSM-Controller, designed to automatically perform dynamic testing at various speeds during performance test, thereby reducing test cycle time from **10 mins** to **5 mins** compared to the Manual Testing.
- Deployed, tested, and validated a Windows application for static testing of the Integrated Vehicle Control Unit, enabling efficient test result capture, seamless data storage in the database and debugging window for failed tests supporting production line testing.
- Built a desktop tool for configuring the flashing station type (VCUF, MCUF, DAQF, STRF, RVSF) and to enable selection of the flashing station type according to the requirement in a production environment, ensuring flexible and efficient operations.

TVS Motor Company Ltd – Project Intern

May 2023 – July 2023

- Developed and implemented a Python-based software program to process VIN numbers, retrieve TPMS Front & Rear sensor data in the form of a MAC ID for each of the VIN from TVS database, and write the TPMS ID within the EV cluster via CAN communication protocol.
- Applied advanced Python Libraries- requests, python-can, Numpy, matplotlib and Pandas showcasing **programming skills** to optimize data retrieval process from TVS Track n Trace API, CAN Communication and **data formatting** respectively.

Projects

Theta Value Calibration | Python, Application Security, UDS |

Sep 2024

- Developed a Python-based application to write calibrated Theta value of the powertrain over CAN using UDS protocol in the TVSM Controller which takes input theta value from a QR code scan and display the success/failure logs for the theta writing sequence.
- Implemented Security Unlock Mechanism (SUM) using AES-128 ECB Algorithm, designed to restrict unauthorized access & writing.

MCU Firmware Flashing using UDS | C++, Microsoft VS 2022, CAN UDS, Flashing |

Mar 2025

- Designed software application to flash TVS MCU with Calibration file of size 200 KB through UDS, achieving flashing time of 7 secs.
- Enhanced the software to support flashing of both compressed and uncompressed full files over 5 MB size across all other variants.

Desktop Application for static testing | C++, Microsoft VS 2022, API, Track & Trace |

June 2025

- Designed a C++-based desktop application for static testing of the TVSM Controller, reducing testing time from 2.5 mins to 1.5 mins and improving debugging for failed parameters. The application also logs trace data, pushed to the TVS database for reference and analysis.

Fire Alarm using PIC Microcontroller | PIC16F877A MC, Assembly Programming, Flame Sensor |

Jan 2024

- Programmed and Integrated 8-bit PIC16F877A family microcontroller with an Infrared Red flame sensor to detect surrounding flames and trigger an automated water sprinkling system with an alarm and fire hooter indications for proactive accident prevention.

Analog Clock using Front End Web Development | HTML, CSS 3, JavaScript |

May 2023

- Created real time analog clock with HTML file having the basic structure of the webpage and ID for the clock's body, second, minute and hour hands, CSS for enhancing the visual appeal of the clock and JS file will provide the logic behind the rotation of clock hands.

Technical Skills

Libraries and Frameworks: Numpy, Pandas, Matplotlib, OpenCV, Pycryptodome, Crypto-Cipher, Python-can

Softwares & Packages: MS Excel, SAP, BusMaster, Visual Studio 2022, Spyder, Postman API, MATLAB, PCAN, CAN db++

Education

National Institute of Technology, Calicut

Dec 2020 – May 2024

Bachelor of Technology – CGPA: 8.56

Kozhikode, Kerala

Telangana Tribal Welfare Residential Junior College

June 2018 – May 2020

Intermediate (10+2) – Percentage: 97.9 %

Balanagar, Telangana

Fathima High School, Mahabubabad

June 2017 – Apr 2018

SSC Matriculation (10th) – CGPA: 9.8

Mahabubabad, Telangana

Extracurricular / Certification

- Electrical Engineering Association, Crackit Series Champion - [View Certificate of Appreciation](#)
- CSA Literary and Cultural Festival, Hyderabad Picture Speaks Champion - [View Certificate of Appreciation](#)
- Zonal Level Solo-Singing Champion - [View Certificate of Appreciation](#)