

Personal Details

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| Name | Manikanta Buddala |
| Date of birth | 01-11-1999 |
| Residence | Ganapavaram |
| Pin-code | 534196 |
| Nationality | Indian |

Profile

- Software Engineer with 2.5 years of experience -having good understanding of Python, C, Linux Commands and Python.
- Have experience in embedded automation using Pytest on custom AVTF framework and automation for Cryptographic features on STM32 boards.
- Proficient in Python, C, Testing, Pytest, unittest, Robot framework
- Good Knowledge on SDLC, Black Box testing, Severity and Priority.
- Passionate about learning New Languages and New Technologies.

Career

- Software Engineer, with good understanding of Python and testing concepts. Constantly devoted towards enhancing the spectrum of knowledge and be an integral part of organization's growth with technical and societal impact

Competences

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| Operating System | Linux, Android and Windows |
| Programming Languages | Python, C, shell scripting, |
| Tools | Git, Pycharm, Appium, Pytest, ADB, STM32CubeIDE, MDK-ARM,EWARM, STM32Cubeprogrammer, Visual studio. |

Languages

| Languages | Speak | Read | Write |
|-----------|-----------------|-----------------|-----------------|
| English | Fluent | Fluent | Fluent |
| Telugu | Native language | Native language | Native language |

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| Project Name | Automation - Embedded Security features for ST Micro |
| Description | This project involves Embedded Security features and test cases adoption for new boards and Maintenance for existing boards. Implementation of new series boards. |
| Role | <ul style="list-style-type: none"> Automation scripts to validate the features of board. Test case adaption and feature validation(automation) for the new STM product line. Resolution of issues for HAL/BSP/CMSIS. Validation of STM board features. Test result Logging and report generation. Security Features validation for Cryptolib, MbedTLS, SecureBoot etc. Feature Integrations and customer release support. |
| Environment | Platform: Linux and Windows. Ide: IAR, KEIL and STM32CubeIDE. Tools: STM32Cube Programmer, STM32 Trusted package creator and AppliCFG, and Git. |

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| Project Name | AVTF - Audio Video Test Automation Framework |
| Description | This project involves audio and video feature validation on different platforms (Linux, Windows and Android). Validate of the video and audio features are done by using Python. |
| Role | <ul style="list-style-type: none"> Video test case addition for Automation framework to support cross platform. Automation of android video screen record using FFmpeg, ADB. Video parameters (Contrast, Blurriness, screen freeze, brightness, blocking) verification support for OS (Linux, Windows, and Android). Log generation and report. |
| Environment | Platform: Linux, Windows, Android Ide: PyCharm Tools: ADB, FFmpeg |

Internship:

Duration: 5 Months

Training:

- Python, C
- Operating Systems
- Networking
- Linux Architecture & commands
- ADB

Domain Training:

- Testing:
 - Testing Methodologies
 - Test case development techniques
 - Software development life cycle
 - Software testing life cycle
 - Software Bug
 - Test Document
- Basic Python
 - Data types
 - Loops
 - Functions
 - Modules
 - File handling
- Advanced Python
 - Exception handling
 - Object oriented programming
- Framework
 - Robot Framework
 - Pytest Framework
 - Unittest Framework

Education

B. Tech in Electronics and Communication Engineering from ABR College of Engineering affiliated to Jawaharlal Nehru Technological University, Kakinada (2021)

Diploma in Electronics and Communication Engineering from Sri Venkateshwara institute of Science & Information Technology (VISIT) affiliated to State Board of Technical Education and Training (2018)