Natarajan A V

📅 18th March 1998

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Automation engineer with a strong and healthy appetite for growth and knowledge, with good experience in HIL Testing, verification and validation with complete automation process. Worked in challenging deadlines successfully and delivered quality work products. A good team player with very good communication and multitasking skills.

Educational Details

Higher Secondary Education:
Shri Ahobila math oriental higher secondary school, Tamil Nadu
Year 2015 – 16.
B. Tech – Electronics and Instrumentation engineering:
SRM Institute of Science and technologies , Tamil Nadu
Year 2016 – 2020

Skills and Technical expertise

- **Programming Languages:**
  Python
  C/C++
  Embedded C
- **Model based design tools:**
  MATLAB
  MATLAB Simulink.
  Xylinx FPGA block set.
- **Automation Tools:**
  Control Desk
  Configuration Desk
  ETAS INCA

- **Analysis Tools:**
  IMC FAMOS
  Vector CANape
  Vector CANoe
- **Process and Tools:**
  SVN
  Git Repositories
  IBM DOORS
- **Methodologies:**
  Agile
  V-Model

Work Experience

KPIT Technologies Pvt Ltd – Pune

April 2021 to Present.

- **Test Automation:**
    - Creating fully automated test scripts using Python Programming from test procedures for Hardware In-Loop testing.
    - Execution of the Automated scripts in the HIL Environment and generation of test reports.
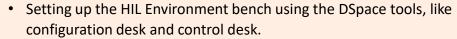   - Analysis of the test reports and communicating/discussing the failures with clients.
    - Reviewing automated test scripts.
- **Test specification creations:**
    - Analyzing the software requirements and creating a well curated test strategy for the testing activities
    - Creating testcases and test procedure with full test coverage and expected results.
    - Understanding and discussing the test constraints with the Clients.
- **HIL Configuration Activities:**
    - Setting up the HIL Environment bench using the DSpace tools, like configuration desk and control desk.
    - Configuring the wiring Harness between the target hardware and DSpace HIL Rack.
    - Rest bus simulation for communication protocols such as CAN and LIN using DSpace - MATLAB Simulink toolbox.
    - Setting up SENT (Single Edge nibble Transmission) protocol messages for pressure and position sensors.
    - Worked with Xilinx FPGA MATLAB Simulink modeling tool.