

# Sanjay Kumar Dasari

Houston, TX

-Email me on Indeed: <http://www.indeed.com/r/Sanjay-Kumar-Dasari/64befeefe462f8a9>

Embedded Systems Engineer with experience working in Hardware – Software verification & validation, implementation of various verification activities on the HIL bench for different controllers, and writing Python scripts for automation. Skilled in Lauterbach, Arduino, Python, Medini Analyze, CANoe, ITEM tool, MathCad, MATLAB, etc. A good Team Player who also works well independently as well. Willing to do any job that is challenging and requires creativity and an innovative approach.

Willing to relocate: Anywhere

Authorized to work in the US for any employer

## Work Experience

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### **Embedded Systems Engineer**

Tata Consultancy Services (TCS) - Hyderabad, Telangana

May 2019 to July 2021

- Performed integration, DFMEA, Fault insertion, Characterization, Qualification, fire & smoke testing (safety goal violation cases) on different applications of ECU.
- Experience in writing the test cases from system requirements specification and system architectural definition in DOORS.
- Worked on ANSYS Medini tool for DFMEA, RHFm, Reliability of functional safety activities according to FuSa-ISO26262.
- Exposure to HARA, functional safety requirements & technical safety requirements.
- Experience in CAN, CAN-FD, FlexRay, UDS protocol with vector hardware tool as an interface to communicate with ECU.
- Performed HIL(Bench) validation on ADAS for different software components using Lauterbach, PTM.
- Knowledge of SPI & I2C protocols and Hands-on experience on CANoe tools.
- Experience in writing Python scripts for automation.

### **Intern**

Kwatt Solutions Pvt Ltd. - Mumbai, Maharashtra

May 2018 to June 2018

Worked on a prototype "Green Elevator". It is a scaled-down model of an elevator that is powered by Solar Energy and used a stepper motor for the controlled motion of the elevator to stop at desired floors using DTMF input.

## Education

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### **Master of Science in Computer and Systems Engineering**

University of Houston - Houston, TX

August 2021 to Present

## **Bachelor of Technology in Electrical and Electronics Engineering**

VNR Vignana Jyothi Institute of Engineering and Technology - Hyderabad, Telangana

August 2015 to April 2019

### **Skills**

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- Python
- Embedded C
- C Programming and Data Structures  
Tools : MATLAB
- Lauterbach
- LT Spice
- Arduino
- Medini Analyze
- CANoe
- ITEM tool
- MathCad
- PTC  
Integrity
- DOORS
- Function generator
- thermal camera
- temperature chamber
- oscilloscope  
etc.  
Standards : ISO 26262
- IEC62380  
Activities
- LTspice
- Java