

**NISHITHA REDDY**

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## **SUMMARY**

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Embedded Engineer with 2.5 years of experience.

## **EXPERIENCE**

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### **Sr. EMBEDDED ENGINEER, Ambro IoT Solutions, Hyderabad, August 2020 – Present**

- Designed and developed customized controller boards for the project.
- Established I2C communication between controllers and processor used in the project.
- Developed and implemented various python API services.
- Implemented umqtt in micropython for establishing communication with broker.
- Implemented image processing techniques in python for object detection.
- Implemented SQLALchemy for python API Services.

### **EMBEDDED ENGINEER, Ambro IoT Solutions, Hyderabad, SEP 2018 – July 2020**

- Implemented Blackbox testing in python using tkinter for testing the code performance.
- Used TensorFlow models in project.
- Implemented regression models for prediction of data.
- Developed and Implemented MQTT Client to connect the device to broker.

### **INTERN, Sigma Industries, Pune, October 2017- April 2018**

- Built an automation system for Special Purpose Machinery.

### **INTERN, CSIR-CEERI, Chennai, September 2016 – April-2017**

- Worked as an intern in R&D department of Electronics, completed the project titled Applications of Embedded technologies in Automatic Sorting of different types of objects

## **SKILLS**

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- **Software languages:** Python, Python API, Embedded C, Flutter.
- **Tools:** Proteus, Photoshop, OrCAD, Keil uVision.
- **Boards:** Arduino, Raspberry pi, ARM Cortex-M4, FPGA
- **Communication:** MQTT, I2C, SPI
- **Others:** Jira, Bitbucket, Pycharm, Android Studio

## **PUBLICATION**

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*A Nishitha Reddy et al.*, Assistive Domotics for Physically Disabled, International Journal on Recent and Innovation Trends in Computing and Communication, 4 (2016) 186 – 189.

## **EDUCATION**

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- M.Tech (2017) – VIT University (Chennai) – Embedded Systems – CGPA 8.61
- B.E (2014) – Marwadi Education Foundation (Rajkot, Gujarat) – Electronics & Communication – CPI 6.44
- HSC (2010) – K.P.E.S (Bhavnagar, Gujarat) – 63%
- SSC (2008) – K.P.E.S (Bhavnagar, Gujarat) – 71.54%

## **ACADAMIC ACHIEVEMENTS**

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- Achieved Meritorious Award for securing 3rd rank in Academics (M.Tech - SENSE Department, VIT University) - November 2015.
- Awarded as best paper (Assistive Demotic's for Physically Disabled) in Set Conference conducted by VIT, Oct 2015
- Won first prize in National Robotics Championship (NRC 2013-14) zonal level robotics competition, conducted by ARK Techno solutions and Department of Science and Engineering, IIT Bombay.

## **LANGUAGES**

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English, Hindi, Telugu, Gujarati