

# Rohith Samineni

## Curriculum Vitae

NIIT University

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DOB: May 20, 1997



### Education

- 2014–2018 **NIIT University**, *Bachelors of Technology, Electronics and Communication Engineering.*  
Current GPA: 6.57/10
- 2012–2014 **Vijaya Ratna jr College**, *Intermediate, Maths Physics and Chemistry.*  
Score: 94%
- 2011–2012 **The Nalgonda Public School**, *Matriculation, CBSE.*  
GPA: 10/10

### Certifications

- Deep Learning Nanodegree Foundation**, U.
- Android Development workshop**, ROBOTHOLON.
- Drone design and development**, ATLEAD PVT LTD.
- Think. Create. Code.**, THE UNIVERSITY OF ADELAIDE THROUGH EDX.

### Skills & Abilities

- Programming Languages C,C++,PYTHON,JAVASCRIPT, MATLAB,HTML,ASSEMBLY,
- Frameworks OPENCV,TENSORFLOW,NUMPY
- Software KEIL UVISION, ANACONDA, JUPYTER NOTEBOOK

### Publications

- Title *Performance Enhancement and IoT Based Monitoring for Smart Home*

### Projects

- Jan 2015 – **PCB Design**, WORK SHOP.
- Mar 2015 Designing PCB in OrCad Layout, developing the negative of the printed tracks, assembling components on the board and testing of the finished board.
- Aug 2015 – **Color Sensor**, .
- Dec 2015 Coded the Arduino based Color Sensor that takes input from a LDR when RGB led throws light on the given object.
- Aug 2015 – **Crash Bird**, PROCESSINGJS.
- Dec 2015 This is a web game designed using ProcessingJS, JavaScript and facebook JavaScript sdk.
- Aug 2016 – **Auto Balancing QuadCopter**, .
- Oct 2016 A quad copter with a flight control system consisting only of an Arduino Uno and MPU-6050. It is able to stabilize itself in windy conditions. Auto-level means that when you release the pitch and roll controls on your transmitter, the multi-copter levels itself.

- Jun 2016 – **Chrome Ext**, JAVASCRIPT PROGRAMMING.  
Aug 2016 A chrome extension that parse the excel file(xls.js) given by the user. This file is stored in chrome using chrome storage api and notification of the status is given.
- Feb 2017 – **Image Classification**, PYTHON, TENSOR FLOW.  
Mar 2017 Implemented a CNN On CIFAR-10 dataset in Aws GPU. Trained the network on 25000 images that classify into 10 different labels.
- Feb 2017 – **Sensor-based Monitoring System for Railway Track Defects**, MATLAB, C.  
present The project involves designing and implementation of RAM-NDT and analyzing the audio data to find the type and position of defects.

## Work Experience

- June 2016 – **Research Student**, NIIT UNIVERSITY.  
August 2016 As part of NU-RAP (NIIT University Research Assistance Program), worked on a research project to detect a moving object in a frame and track its motion. The concepts of Digital Image Processing were used. The project was implemented using OpenCV in Python. Successfully applied the algorithm to multiple video feeds.

## Coursework

- Micro-Controllers And Micro-Processors
- Advanced Embedded Systems
- Power Electronics
- Communication Networks
- Digital Signal Processing
- Understanding Pic,Atmel Micro controllers and different communication protocols like SPI,I2C
- Arm Processors, RTOS, CAN,Timers
- power electronic converter circuits for AC-DC, DC-DC and DC-AC power conversion.
- Fundamental network architecture concepts'
- FFT ,DFT, Digital Filters implementation

## Communication Skills

- 2014–2018 Member of NU-Rangmanch, the dramatics society of NIIT University.  
Jan2017 Presented a paper at ICOIN 2017 Danang,Vietnam.

## Languages

**English, Hindi, Telugu**