Photo

Richard Tony
IoT & Robotics Enthusiast

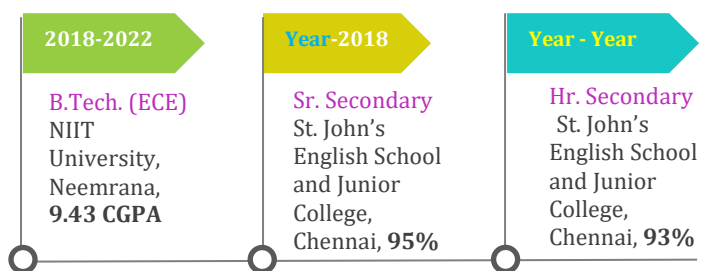Phone: 7358754919   E-mail: richardtony54@gmail.com

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Executive Profile

- Practical knowledge & hands-on exposure in Microprocessors and Microcontrollers along with working knowledge of Computer Architecture & tech., Programming Languages, Integrated Electronics
- Gained significant exposure in various modern technologies including IoT, Robotics, Digital Electronics and their execution through various projects
- Fruitful combination of academic expertise and leadership qualities inherent in the working style that resulted into recognition at forums
- Completed certifications in Raspberry, Flutter Development & Google Cloud
- Result-oriented, quick learner and a keen planner with effective analytical & time management competencies
- Exhibited leadership skills by heading several key initiatives

Education

2018-2022	Year-2018	Year - Year
B.Tech. (ECE) NIIT University, Neemrana, **9.43 CGPA**	Sr. Secondary St. John's English School and Junior College, Chennai, **95%**	Hr. Secondary St. John's English School and Junior College, Chennai, **93%**

Technical Skills

C & C++

Java

Flutter

MySQL

Python

Ardunio IDE

Knowledge Purview

IoT

Project Management

Robotics & Automation

Value Selling

Digital/Analog Electronics

Computer Architecture

Integrated Electronics

Soft Skills

Communicator

Quick-learner

Planner

Innovator

Analytical

Team Player

Certifications

- Pursuing:
  - Data Science from PadhAI.onefourthlabs
  - Arduino: Step-by-Step Guide from Udemy
- 2020 Ultimate Guide to Raspberry Pi: Tips, Tricks and Hacks, Udemy online course
- Introduction to Flutter development using dart
- 30 Days of Google Cloud Program

Accomplishments

- Drafted a research article on 'Brain controlled robotic car using raspberry pi' published on February 11, 2020
- Winner of the HackNU 2.0 hackathon conducted at NIIT University in 2020
- Club Secretary for Science for 2017 – 18

Major Projects

NU Teams | NIIT University | Team Size: 6   **May'20 – Jun'20**
Technology Used: Flutter using Dart Lang, Firebase
An android app for project management set by the faculty of a university/school for the students.
Key Learnings:
- Drove the development of the student and faculty dashboard
- Gained experience through continuous learning of Flutter using dart lang, firebase and UI design

Identification of Human Male and Female by Speech Recognition   **Feb'20 – Mar'20**
A python application that took a speech audio wav file as an input and classified the gender based on the Fast Fourier Transform method.
Key Learnings:
- Gained practical experience in Python numpy, matplot.pyplot libraries

Wave- Hand Gesture based Home Automation System   **Nov'19 – Dec'19**
A hand gesture-based home automation system that allowed the user to switch between appliances with simple hand gestures using Arduino UNO and APDS9960 gesture sensor.
Key Learnings:
- Gained experience in interfacing with various sensors with the arduino UNO, C++

Smart Plant Alarming System   **Mar'19 – Apr'19**
A smart system that detected the soil moisture level and notified the user to water their plants on their phone using wi-fi via the Arduino UNO and ESP8266
Key Learnings:
- Gained experience in interfacing with various sensors with the arduino UNO, ESP8266 and transfer data via cloud, C++

Hotel Management System   **Mar'19 – Apr'19**
A python application that covered the major aspects of hotel management- check-in, check-out, guest details and the amenities accessed by the guest.
Key Learnings:
- Gained practical experience in Python UI concepts, database management and python backend coding

Other Projects

Vaccines: Lab to Needle
An IoT and Blockchain based R&D project, aimed at improving and providing clarity in the supply chain of the Covid-19 Vaccine distribution.

Arduino Balancing Robot with Pid Controller
Aimed at developing an Arduino based Self Balancing Robot with PID controller in which the input (which is the desired tilt, in degrees) was set by software. The MPU6050 sensor read the tilt of the robot and fed it to the PID algorithm, which performed calculations to control the motor and keep the robot in the upright position

PLC operated Colour Based Product Sorting Machine
A PLC operated automation system that sorted the products based on its color without any human intervention

PID based Temperature Controller using Arduino
Aimed at developing a PID based temperature controller using Arduino to measure the temperature and control it to maintain a desired temperature level.

Academic Achievements

- Participated in HackNU2.0 Hackathon conducted at NIIT University; led the team and provided strategies with flowcharts and distribution of work
- Secured a scholarship of 75% at NIIT University, later upgraded to 100% in 2019
- Conferred with the Topper Award for securing 10 cumulative grade points in class 10

Seminars Attended
- Webinar on Android App Development by CETPA in Jul'20
- Seminar on Advanced Data Structures by coding ninjas in Feb'20
- Seminar on Lessons in the Management of Semiconductor Technology Lifecycles by Mr. Sunit Rikhi in Feb'20

Positions of Responsibility
- Contributed as:
  - Leader of the Silicon D Art Team that created a Home Automation Project in 2019
  - Leader of the HackNU 2.0 Hackathon conducted by NIIT University and led the team to a successful win
  - Assistant Science Club Secretary in 2016-2017; Science Club Secretary in 2017-2018
- Headed the Science Club activities conducted by the club between 2016-2018

Voluntary Experience
- **siNUsoid v2.0**- Contributed as a member of the PR & Marketing Team of siNUsoid v2.0, the annual technical fest of NIIT University, who contacted schools and colleges to participate in the fest
- **Community Connect**- NIIT University program where a group of students visited neighboring schools and teach students, and also prepared homework and posters
- **Rotract Club, Pune**- Organised events for training of small business owners

Personal Details
Date of Birth: XX (mention)
Languages Known: English, Hindi & Tamil
Address : XX (mention)