

# RICHINS LARVIN R.C

EMBEDDED ENGINEER

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in LINKEDIN PROFILE

## PROFILE

To attain a good position in the organization and to work, where my positive, enthusiastic and passionate presence and contribution is of vital importance to the growth of the company and my career.

## PROJECTS

### Employee Monitoring Software - 2021 (August - September)

The Software developed is built using python for its operation-monitoring function. And Figma was used to develop the UI of the application for its ease of use.

**Role:** Project Developer

**Skills:** Python

**Software:** VSCode, Figma

### Water Level Indicator - 2021 (March - August)

This machine indicates the level of water present in the tank as well as controls the flow of water. The project uses CAN Communication and STM32 "Bluepill" for this operation.

**Role:** Project Developer

**Skills:** C, Embedded C, CAN, CAPL Programming, CAN, Python

**Software:** STM32MX, Keil Vision, CANoe

**Hardware:** STM32F103FE, CAN Transceiver.

### Automate Multiple Website Login using Selenium - (January 2021)

In this project, logging into a login page with many combinations to enter the page using selenium was achieved.

**Role:** Developer

**Skills:** Python, Selenium

**Software:** VSCode

### Aerial Surveillance Using Drones with 3D printed frame - 2020 to 2021

A drone to monitor and provide security to people and alter the cops for immediate action.

\* Conference Successfully Published

**Role:** Project Team Member

**Skills:** Python, OpenCV, Machine Learning

**Software:** VScode, BetaFlight Controller

### Oil Separator Bot - 2019 to 2020 (Interdepartmental Project)

A bot is used to clean up oil from oil spills present in the oceans or seashore, to protect the aquatic organisms and their ecosystem.

\* Applied for design patented

**Role:** Project Team Member

**Skills:** Hardware Testing

### Attendance Monitoring System using Face or Voice Recognition - 2019 to 2020

A machine was developed to monitor the attendance of an employee/student using face or voice recognition.

\* Yet to be patented.

**Role:** Project Developer

**Skills:** Python, OpenCV, Machine Learning

**Software:** VSCode

## WORK EXPERIENCE

### Embedded Engineer

VAct Technologies Private Limited | April 2021 -Currently Working

My Role at VAct is to develop new technology, learn new concept's and teach the students.

## PROGRAMMING LANGUAGES

- C
- C++
- Python

## SKILLS

- C Programming
- PIC
- FreeRTOS
- PCB Design (AutoDesk Eagle)
- Ubuntu

## ACADEMIC

### BACKGROUND

Sri Krishna College of Technology

B.E Electrical and Electronics Engineering (2017-2021)

- Department Topper (2nd Semester )
- CGPA: 8.7
- Member, Science Developing Council
- Event Coordinator
- Certificate Designer of the department

Lisieux Matriculation Higher Secondary School

Computer Science (2016 - 2017)

- Percentage - 89.17%
- Science Project 2nd place winner
- School House Chess Winner

Shri Nehru Vidyalaya Matriculation Higher Secondary School (2014 - 2015)

- Percentage - 93%
- Zonal level winners in various sports
- School House Chess Winner

## LANGUAGES

- English
- Tamil
- Hindi

## WORKSHOP

Embedded C  
Sri Krishna College of Technology  
2019-2020  
Ride by Wire Technology in Bikes  
SKYY Rider Institution -7th Sep - 2020  
Fundamentals of Advanced Motorcycle Engine  
SKYY Rider Institution  
20th Sep - 2020

## AREA OF INTEREST

- Electric Vehicle
- AUTOSAR
- CAN Protocol
- Automotive Electronics
- Embedded System
- UART, SPI, I2C Protocol
- Machine Learning
- Artificial Intelligence

## SOFTWARE SKILLS

- VSCODE
- Eclipse
- Vector CANoe
- Keil Uvision
- Proteus
- STM32 Cube IDE & MX
- MPLab X IDE
- MATLAB

## ADDITIONAL COURSES

### NPTEL Courses

- Fundamentals of Electric vehicle
- The joy of Computing Using Python- 71% Elite
- Technical English for Engineers-71% Elite
- Soft Skill Development -60% Elite

### Coursera

- Visual Elements of User Interface Design - 81%
- Programming for Everyone (Python) - 96.70%
- Python Data Structure - 99.20%
- Introduction to Programming with MATLAB - 98.80%

## LICENSES & CERTIFICATION

IIT Bombay Techfest : 2019 - 2020  
Earthmatters - Finalist

Texas Instrument : 2019 - 2020  
India Innovation Challenge Design Contest  
Semi-Finalist

Codissia : 2019

National Science & Technology Fair

PSG College of Technology : 2020

Coimbatore Productivity Council  
Productivity Week  
Paper Presentation - Paper Battery

PSG Polytechnic College : 2020

Tamilnadu Skill development Corporation  
District Skill Competition - Electrical Installation

## VOLUNTEER EXPERIENCE

- Sri Krishna College of Technology - Office Bearer & Event Coordinator
- Shri Nehru Vidyalaya MHSS - Class Monitor
- Automobile and Tech Consultant
- Certificate designer in college and VACT



in LINKEDIN PROFILE

RICHINS LARVIN - ELECTRICAL AND ELECTRONICS ENGINEER | PASSION TOWARDS  
AUTOMOTIVE INDUSTRY | PROGRAM MINDED