

Mobile	+1 313-247-2612
Email Id	<a href="mailto:nkaranam@umich.edu">nkaranam@umich.edu</a>



## KARANAM NAGA VENKATA SREEKARA RAO

### University of Michigan, 4901 Evergreen Rd, Dearborn, MI 48126

#### OBJECTIVE

To work in a challenging field to gain experience and learning is everyday words which improve my efficiency to contribute more to an organization.

#### ACADEMICS

College / Institute	Education	Duration	Percentage
K L University	B Tech (ECE)	2017 - 2021	8.58 CGPA
Narayana Junior College	BIE	2015 - 2017	90.3%
Bhashyam high school	SSC	2014 - 2015	8.5 CGPA

#### TECHNICAL SKILLS

- **Programming Languages:** C , Basics of Java(oops), Python.
- **Software Tools** : LabView, MATLAB, Xilinx, Multisim, Proteus.

#### WORK EXPERIENCE

- **Tata Consultancy Services – Software Engineer**
  - Worked as Associate software engineer, May-2021 to August-2022.

#### PROJECTS

- **Wireless Biometric Lock Using Arduino**
  - Domain: **Internet of things.**
  - Role: **Team Leader, Hardware Builder.**
  - Description: In this project we used Bluetooth module and ARDUINO as input and output devices in my project. When we place a finger on the BIOMETRIC SCREEN it detects whether finger matches to original or not and ensures the lock is opened for correct finger prints. Here we used SERVOMOTOR instead of door. When the finger is detected correctly the SERVOMOTOR rotates 180 degrees, if not it retains its original position. We used ARDUINO software to run and dump the code.
- **BOLT Microcontroller Based Soil Health Monitoring System using Integromat**
  - Domain: **Wireless Communication**
  - Role: **Team Leader, Hardware Builder**
  - Description: The working principle is very simple, the soil sensor measures the moisture content present in the soil and LDR measures the light intensity falling on the plant. Both the data are read by the Bolt unit and send to Integromat logic whenever a read request arrives. In case of soil sensor, if the moisture content is less than the threshold value (by the user), the output of the sensor is LOW otherwise it is HIGH. By this we can monitor the sunlight and water content of plants and get alerts when you need to act.
- **Elevator using Lab view**
  - Domain: **Lab view (Software).**
  - Role: **Developer.**
  - Description: In this project, Lab view programming language is used to design the control system of an elevator for multiple usages. Based on the use of visual programming by Lab view, the project establishes a graphical soft panel, instead of traditional instrument control panel and programming interface, to run logical updates and operation maintenance easily. Lab view is corresponding to the ports of many instruments, which makes easy to regulate and control relevant operations. The use of modular design in the project increases systems stability and avoids errors caused by using of mixed data types.

## INTERNSHIP

- Completed internship at **ECIL (Electronics Corporation of India Limited)** from 20<sup>th</sup> May 2019 to 19<sup>th</sup> of June 2019 on the “**EMBEDDED SYSTEMS**”.

## EXTRA CO-CURRICULAR ACTIVITIES

- Participated in “**Automotive Electronics & IOT**” organized by **ISIE**, India.
- Co-ordinated a National Level Technological fest **ZROTRIYA 2019 and SAMYAK**.
- Participated in National level coding competition fest in **IGNITE 2018**.

## CERTIFICATION COURSES

- Automotive Electronics & IOT.

## INTERESTS AND ACTIVITIES

- **Interests:** Continues learning to upgrade my Knowledge.
- **Activities:** Browsing internet, playing Cricket and listening music.

## PERSONAL QUALITIES

- Leadership and Team management
- Adaptability
- Sociable
- Effective Communication Skills

## DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and I look forward to be a part of your organization.