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PROFILE

Undergraduate in **Electronics and Instrumentation Engineering** from **Ramaiah Institute of Technology**, Bangalore, 2020 batch. Project, Internship, and co-curricular activities include **embedded systems, control systems, IoT, machine-learning, deep-learning, and web-development**.

SKILLS

- **Programming Languages:** Verilog, C, C++, Python, JAVA, Javascript, HTML, Assembly Language, R, Solidity
- **Software:** PSpice, Multisim, Rockwell Automation Software, Matlab
- **Packages/Frameworks:** Numpy, Scikit-Learn, Keras, React, Django, Gatsby, WEB3, Flask, Tensorflow, Strapi, RHRV

EDUCATION

RAMAIAH INSTITUTE OF TECHNOLOGY

Bachelor of Engineering in Electronics and Instrumentation

BANGALORE, INDIA

08/2016-08/2020

- ❖ Overall GPA: **8.74/10**
- ❖ Final Year GPA: **9.13/10**
- ❖ **Best Project Award**
 - Placed Second at Departments Best Project Award by Ramaiah Alumni Association.

CLARENCE HIGH SCHOOL

Indian School Certificate (ISC)

BANGALORE, INDIA

05-2014-05/2016

- ❖ Overall Percentage: **90.4**
- ❖ **Trophy of Excellence**

Awarded principals trophy for excellence in the ISC exam.
- ❖ **Merit Certificate**

Awarded Merit Certificate for excellent performance in the ISC exam.

CLARENCE HIGH SCHOOL

Indian Certificate of Secondary Education (ICSE)

BANGALORE, INDIA

03/2014

- ❖ Overall Percentage: **86.16**
- ❖ **Merit Certificate**

Awarded Merit Certificate for excellent performance in ICSE exam
- ❖ **Honour Roll Certificate**

Awarded Honour Roll Certificate for good conduct and classroom efficiency

PROJECT EXPERIENCE

• SMART-HELMET

06/2021-CURRENT

A smart helmet with Accident Detection features to notify authorities in case of an accident, to decrease time for initial response. Machine-Learning is also applied to study the physiological state of the wearer of the helmet.

- ❖ **Skills:** Machine-Learning, Embedded Systems, Circuit Design, IoT.
- ❖ **Learn More:** <https://shodevacc.github.io/projects/helmet>

• **AMAZON-SHOPPING ASSISTANT**

01/2021-05/2021

A Chrome Extension to modify the DOM structure of the amazon website, to optimise its usage by the visually impaired. Powered by Deep Learning.

- ❖ **Skills:** Deep-Learning, Web-Development.
- ❖ **Learn More:** <https://shodevacc.github.io/projects/shop/>

• **SELF-BALANCING CYCLE WITH LOCATION TRACKING**

01/2020-12/2020

This paper proposes a design for a reaction wheel assisted self-balancing bicycle modelled as an inverted pendulum. As assistive riding technology, it enables people with disabilities and senile individuals to use it as a mode of transportation and physiotherapy.

- ❖ **Won** second place in the **best project award** held by the Ramaiah Alumni Association.
- ❖ **Skills:** Embedded Systems, Circuit Design, Control Systems, IoT, Web Development, Simulation using Matlab and Insightmaker.
- ❖ **Publication:** https://link.springer.com/chapter/10.1007/978-981-16-2543-5_26
- ❖ **Learn More:** <https://shodevacc.github.io/projects/Cycle>

• **GPS LOCATION TRACKER WITH SOS CAPABILITIES**

04/2019-08/2019

Portable handheld location tracking device capable of continuous tracking with an online database using IOT with various modes of usage.

- ❖ **Skills:** Embedded Systems, Circuit Design, IoT.
- ❖ **Learn More:** <https://shodevacc.github.io/projects/SOS>

• **AGRI-CANE**

06/2018-12/2018

An application for farmers to monitor real time data about the NPK (Nitrogen, Phosphorous, Potassium) and pH values of soil. Image Processing is utilised to also detect whether the plant is infected with visible disease.

- ❖ **Skills:** Deep-Learning, Embedded Systems, Circuit Design, IoT, Web-Development.
- ❖ **Learn More:** <https://shodevacc.github.io/projects/agri>

• **PERSISTENCE OF VISION ROTATING CLOCK**

04/2017-06/2017

Rotating clock, built using a microcontroller and based on the principle of persistence of vision.

- ❖ **Skills:** Embedded Systems, Circuit Design.
- ❖ **Learn More:** <https://shodevacc.github.io/projects/clock>

• **LINKS TO LEARNING**

- ❖ [Google-CoLab](#): A few deep-learning enabled image classifiers and Reinforcement Learning Notebooks.

WORK HISTORY

FREELANCE BLOCKCHAIN DEVELOPER

- Developed Websites, Smart Contracts, and their frontend UI for cryptocurrencies.

11/2020-11/2021

Technologies used: Javascript framework React, Web3Js package, ethers package, solidity.

N.K. CATERERS

• **FREELANCE FULL STACK WEB DEVELOPER**

BANGALORE, INDIA

Developed complete E-Commerce website for business

03/2021-05/2021

- **Technologies used:** Javascript framework Gatsby, Strapi.

MISSION MILK

• FREELANCE WEB DEVELOPER

Developed complete portfolio website for Non-Profit

- **Technologies used:** Javascript framework Gatsby

BANGALORE, INDIA
04/2020

LI2 TECHNOLOGIES

• STUDENT INTERN

Worked on development of an IoT device focused on assistive rehabilitation

BANGALORE, INDIA
01/2020-03/2020

NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES

• STUDENT INTERN

- ✦ Biomedical Engineering internship involving the calibration, assessment, and study of medical equipment as part of the medical electronics team of NIMHANS.

BANGALORE, INDIA
07/2019- 08/2019

TRAINING

• PRAVEGA 20 AI AND ML WORKSHOP

- ✦ Wisdomware Technologies, IISc Bangalore

ATTENDEE

• ONEM2M DEVELOPERS TUTORIAL

- ✦ IISc Bangalore

ATTENDEE

• PCB DESIGNING WORKSHOP

- ✦ B-Automate

ATTENDEE

• ARDUINO WORKSHOP AND MINI-PROJECT COMPETITION

- ✦ IEEE, Ramaiah

ATTENDEE AND
PARTICIPANT

• TESTING, VERIFICATION AND CALIBRATION OF VENTILATORS

- ✦ Fluke Biomedical Systems

CERTIFICATE
COURSE

• FOUNDATIONS OF DATA SCIENCE

- ✦ PadAI one series

CERTIFICATE
COURSE

ACTIVITIES AND ACHIEVEMENTS

• MISSION MILK CORE TEAM

- ✦ **Led and managed** a group of volunteers to distribute milk during COVID-19 lockdown.
- ✦ Built website for sponsorship program.
- ✦ Raised over **₹450,000**

BANGALORE, INDIA
04/2020 - 08/2020

• VOLUNTEER AT U&I

- ✦ Volunteered at U&I as a teacher at after school teaching program for underprivileged children and women.

BANGALORE, INDIA
12/2019 - 03/2020

• **INDIA INNOVATION CHALLENGES DESIGN CONTEST**

Semi-Finalist

2019

- ❖ Team Leader
- ❖ Qualified for the **semi-finals** of the **Texas Instruments IICDC competition** .

• **RAMAIAH TECH FEST**

- ❖ Lead Organiser

11/2019 - 12/2019

• **DANCE**

- ❖ Participated in dance workshops, and cultural competitions in school.
- ❖ Won **Second place** for Indian folk dance at Clarence Literary, Arts and Dramatics Society

2008 - 2010

08/2014

• **SPORTS**

- ❖ College Badminton Team
- ❖ Member Clarence High School Football Team.
- ❖ Avid fitness enthusiast.

2016 - 2020

2008