



# MITHRA B

## BIOMEDICAL ENGINEER

### CAREER OBJECTIVE

Gazing for a challenging role in a dynamic stable organization to harness my technical and management skills for the escalation of the industry. As well as to enhance my knowledge, encircling new and emerging trends in the sector.

### ACADEMIC CREDENTIALS

#### BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHYAMANGALAM, ERODE

- B.E BIO-MEDICAL ENGINEERING | Expected to graduate in **2023**
- 9.60** CGPA (up-to 5th semester)

#### BHARATHI MATRIC HIGHER SECONDARY SCHOOL, THADAGAM ROAD, COIMBATORE

- H.S.C in 2019 (12th) | Prevailed an aggregate of **80.33%**
- S.S.L.C in 2017 (10th) | Prevailed an aggregate of **97.80%**

### PROJECTS

#### PROJECT 1 - VOGUISH ASTHMA ANALYZER SYSTEM

**DURATION** : 6 Months | **TEAM SIZE** : 2

**TECHNOLOGY** : IoT in Medical Instrumentation

**DESCRIPTION** : An inhaler is designed as a dual purpose one, which shall be used both as an inhaler and as a diagnostic device. History of the readings will get stored in the app developed, for the case of uninterrupted monitoring by Doctor.

#### PROJECT 2 - DRENCH OXYGEN HEGEMONIZED ROBOTIC QUITTANCE CONGLOMERATE

**DURATION** : 1 Month | **TEAM SIZE** : 5

**TECHNOLOGY** : Healthcare

**DESCRIPTION** : This project is to achieve SpO2 controlled automated Oxygen Delivery System

#### PROJECT 3 - FLORA BREEZE

**DURATION** : 3 Months | **TEAM SIZE** : 4

**TECHNOLOGY** : Embedded System

**DESCRIPTION** : The project provides compact low-cost Air conditioner which helps to grow the hilly crops in normal hydroponics. This invention equips the crop's moisture sensing facilities, inorder to maintain the climatic conditions.

#### PROJECT 4 - AGRO - BLOCKCHAIN

**DURATION** : 2 Months | **TEAM SIZE** : 4

**TECHNOLOGY** : Block- chain Technology

**DESCRIPTION** : Agricultural lands and their properties are being stolen by many real estate agents and companies for their benefits. The proposed idea is to safeguard the properties and the information related to farmers and protect them by using Agro- block chain.

#### PROJECT 5 - POLLUTION FREE MAP ROUTING GOOGLE MAP

**DURATION** : 1 Month | **TEAM SIZE** : 5

**TECHNOLOGY** : IoTex and Blockchain Technology

**DESCRIPTION** : A system to monitor air quality in the atmosphere to provide a pollution-free route in the maps by using Pebble Tracker.

### CONTACT ME



24, 1st street Anbu Nagar, Cheran  
Nagar, Subramaniyampalayam,  
G.N.Mills, Coimbatore - 641029



mithra.bm19@bitsathy.ac.in  
mithrabalasubramanian212@gmail.com



+91 7305829289



<https://github.com/MithraBalasubramanian2002>



<https://www.linkedin.com/in/mithra-balasubramanian-3ba702195/>

### TECHNICAL SKILLS

MATLAB

BASICS OF LABVIEW

PROTEUS

DIPTRACE

### PROGRAMMING LANGUAGES KNOWN

C PROGRAMMING

BASICS OF JAVA

### AREAS OF INTEREST

- Biomedical Instrumentation
- Medical electronics and sensors
- Design and Development
- Machine Learning

### PERSONAL SKILLS

- Adaptability
- Integrity & Enthusiast
- Leadership
- Studios & Persistence

### LANGUAGES KNOWN

- English (R, W, S)
- Tamil (R, W, S)

### HOBBIES

- Pencil Arts
- Video editing
- Content writing
- Chess
- Gardening

### PERSONAL INFORMATION

- Date of Birth : 02 January 2002
- Nationality : Indian
- Father's Name : Balasubramanian R
- Mother's Name : Susila Devi N

## CLUBS & SOCIETIES

- National Service Scheme member
- IEEE Student Branch member
- BMESI Chapter member

## CO-CURRICULAR ACTIVITIES

### COURSES

- Attended a course on "Introduction to programming with Matlab"
- Attended a course on "Exploring time and space" Conducted by Coursera online Learning Platform.

### WORKSHOP ATTENDED

- Participated in the "Live Workshop on oxygen Concentrator" organized by Department of Biomedical Engineering, BIT - September, 2021.

### INTERNSHIP TRAININGS

- **Industry Name:** Towards Technology  
**Duration:** 30 Days [October, 2021]  
**Responsibility:** As Project Engineer, performing Machine Learning tasks and wrote paper for each tasks.
- **Industry Name:** Barola Technologies - biomedical healthcare technology  
**Duration:** 15 Days [July, 2021]  
**Responsibility:** Student member
- **Industry Name:** Hariyali NGO with training support from edunex news  
**Duration:** 30 Days [June, 2021]  
**Responsibility:** Content writer

### EXTRA-CURRICULAR ACTIVITIES

- Organized and attended **UBA Tribal Upliftment Camp** as a part of National Service Scheme.
- Participated & volunteered for **7 day camp** and **BDC camp** organized by NSS.
- Organized and coordinated "AARUKTI 2021" & "Med Technovanza Project Expo", a Technical symposium & National level project presentation event presented by BMESI - BIT Chapter.
- Coordinated "Disenyo PCB Challenge 2K21", National level PCB designing event.
- Poster Making (**2nd prize**) - Industrial Safety club- BIT on behalf of 31st road safety week.

## PROJECTS

### PROJECT 6 - PLUCK IN TECH

**DURATION** : 2 Months | **TEAM SIZE** : 4

**TECHNOLOGY** : Embedded System

**DESCRIPTION** : The primary focus of the project is to find whether the crop is eligible to pluck or not. This Glove detects the tuber size of the root plants and which shows the result of whether pluck or not.

### ACHIEVEMENTS

#### INTERNATIONAL

- IoTEx Hackathon 2021- IoTEx Blockchain, secured **special mention award** and won 250\$ USD
- Polkadot Buildathon 2021 - Polkadot Blockchain, secured **second place** and won 200\$ USD.
- Build for Bharat Hackathon 2021 - Binance Blockchain, secured **top startup prize** and won 200\$ Google tokens.

#### NATIONAL

- 5G Hackathon 2020 - 2021 - Government of India, **Qualified finalist** and won a prize money of Rs.1 Lakh.
- IGEN project Expo 2020 - IEE Computer Society, Hyderabad Section, secured **1st place** and won a prize money of Rs.1500.
- Project Expo 2021- IEE Computer Society, secured **2nd place** and won Rs.750.
- TECHRITI 21, Technovation challenge - IIT Kanpur, secured **2nd place** and won Rs.8000.
- PU Digital Hackathon 2020- Parul University, Gujarat, secured 3rd place and won Rs.1500.

### CONFERENCES/ SYMPOSIUM

- National Conference on Signal Processing, Communication and VLSI Design (NCSV'21) - **BEST PAPER AWARD**
- Promoting innovative research and enhancing rural development (PIERD 2021) - Symposium - secured **1ST PLACE**
- National Symposium on Emerging Innovations for Atmanirbhar Bharat(EIAB) - 2020
- International Web Conference on Innovations in Communication and Computing - ICICC'20
- International Conference on Sustainable and Digital Fashion - (ICSDF2020)
- International Web Conference on Mathematics for Material Science, Signals, Images and Structured Data – ICMMSIS'20.

### PUBLICATIONS/ PATENTS

- Second International Conference of Sustainable Infrastructure with Smart Technology for Energy and Environmental Management (FIC-SISTEEM-2022) - CONFERENCE + PUBLISHED IN SCOPUS
- Third International Conference on Innovation in Engineering Sciences (ICIES 2022) - CONFERENCE + PUBLISHED IN GOOGLE SCHOLAR
- Patent filed and published on the title "Flora Freeze" under the field of innovation named Embedded Technology in 2021. [Design + Technology patent]
- Patent filed on the title "The Voguish Inhaler" under the field of innovation named Healthcare Technology in 2021. [Design patent]

### DECLARATION

I MITHRA B, hereby declare that the above written particulars are true to the best of my knowledge.

**PLACE:** COIMBATORE

**DATE:**

**MITHRA B**