



**ASWATHY M**

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VADAKADUTHU VADAKATHIL

Sakthikulangara[p.o], Kollam

Kerala ,India

**B.TECH**

**TKI15BM023**

## CAREER OBJECTIVE

To join as an entry level professional confiding to prove my ability to grow with the challenging limits in the Biomedical Engineering field and utilize almost all the knowledge I gathered during my academic life.

## CREDENTIALS

### EDUCATIONAL QUALIFICATIONS

COURSE	BOARD/UNIVERSITY	COLLEGE	% OF MARKS	YEAR OF PASSING
B-TECH BIOMEDICAL ENGG	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	TKM Institute Of Technology ,Ezhukone , Kollam	---	ONGOING
PLUS TWO	HIGH SCHOOL BOARD OF KERALA GOVERNMENT	St.Joseph's Girls HSS KOLLAM	80	2015
SSLC	INDIAN CERTIFICATE OF SECONDARY EDUCATION	Trinity Lyceum,Fathima Road Kollam.	72	2013

## EXTRACURRICULAR ACTIVITIES

- Member of IEDC for three years

## ADDITIONAL QUALIFICATION

- **MICROSOFT OFFICE** – Word, Excel, Power Point
- **ADOBE** – Photoshop

- PROGRAMMING – C,C++,MATLAB ,LABVIEW
- OPERATING SYSTEMS KNOWN : Windows, Microsoft

## TECHNICAL SKILLS

- PROTEUS
- MATLAB
- VLSI
- C-PROGRAMMING
- LAB VIEW

## DESIGN PROJECT

### FULL BODY THERMOREGULATOR SUIT

TEAM SIZE – 4

DURATION –6 MONTHS

#### *Brief Overview of Project.*

- Body-Thermo regulator is a biomedical device which provides warm and humidity all in a controlled environment as required by the body.
- Normal body temperature is 37.0degree Celsius (in between 98.9F and 99.9F), cells tissues and organs operates efficiently only within this narrow temperature limits. If our temperature rises 2 F above ie, 98.6 F , we become ill .if it decreases 2 F , we feel cold .On the basis of this there are two conditions of body , they are Hypothermia and Hyperthermia . Hyperthermia is elevated body temperature due to failed thermoregulation that occurs when a body produces or absorbs more heat than it dissipates...The opposite is Hypothermia , which occurs when the temperature drops below that required to maintain normal metabolism .
- Thermo regulation is the ability of the body to balance the heat produced in the body with the heat lost by the body there by maintaining the body temperature in the normal range. So that our aim is to develop a smart clothing and fabrics that adapt to the environment of the wearer's body to control body temperature.
- Smart clothing could help us to stay warm in a freezing office and cool when we step outside of office into blistering summer heat .It controls air circulation and alters the amount of heat escaping from the body This device is easy to use , light weight.
- These pieces of clothing are low cost and easy to carry, Body thermo regulator should be a multi- purpose product .The two extreme conditions of the body ie , Hyperthermia and Hypothermia can be controlled using this device .

- Technology : Analog circuit .

## SEMINAR

### ONE DIMENSIONAL SIGNAL PROCESSING TO PREDICT DISEASE OUTBREAK

#### ***Brief Overview of Seminar.***

- "A new method for detecting disease epidemics using a symptoms-based approach. The data was collected from developed mobile applications which include user's demographic information and a list of chief symptoms.
- These symptoms were grouped, classified, and then convert to a time-series digital signal using consensus scoring approach. Through the syndromic grouping method, the system digitized each package into single independent variable that is ready for further signal processing to predict disease outbreak in future.

## INDUSTRIES VISITED AND OTHER ACTIVITIES

- Attended 5 days Internship from NS Hospital, Kollam
- Attended 1 National Conference of Biomedical Engineers conducted by Sree Trivandrum.
- Attended 5 days Internship from NIMS Hospital, Trivandrum.
- Attended 5 days Internship from CYRIX HEALTH CARE Private Limited

## PERSONAL PROFILE

Age, Date of Birth	21yrs, 2nd JUNE, 1997
Marital Status	Single
Languages	Very fluent in English & Malayalam
Computer skills	MS office, MAT LAB, LABVIEW

## DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief. I bear the responsibility for the correctness of the above mentioned particulars.

**ASWATHY M**



