

# ASHA BABY

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## SUMMARY

- **Target Job Title:** Biomedical Engineer fresher
- **career objective:** To obtain a good position in an innovative, development environment as Biomedical Engineer where I can utilize and expand my knowledge, skills which would enable me as a fresh graduate to grow while fulfilling organizational goals.

## ACADEMICS

COURSE	INSTITUTION	BOARD	AGGREGATE	YEAR
B. Tech (Electronics & Biomedical Engineering)	Govt. Model Engineering College, Thrikkakara	KTU	7.86	2019
Class XII	GHSS Kadayirippu	Kerala state	94.17	2014
Class X	St John's J.S.H.S Kanniattunirappu	Kerala state	99	2012

## AREAS OF EXPERTISE

- **Technical Skills** : C++, Proteus, Arduino, Python
- **Related coursework** : Biophysics, Biosensors & transducers, Design of electronic circuits, Medical imaging techniques, Biomedical signal processing, Therapeutic equipments
- **Operating Systems known** : Windows, Linux.
- **Areas of Interest** : Hospital engineering, biomedical instrumentation, IOT.

## WORK EXPERIENCE

- **Company: O E N India Limited** **Post: Intern** **Duration: 1 week**
  - Gained knowledge of different stages of manufacturing of connectors, familiarized with tool design, and R&D components and with industrial tools.
- **Company: MOSC Medical College Hospital** **Post: Intern** **Duration: 1 week**
  - Familiarized with functioning of biomedical department, duties of biomedical engineer and with prominent equipments used in hospital.
- **Company: IHRD Production and Maintenance Division, Edapally** **Post: Intern** **Duration: 10 days**
  - Familiarized with Internet of things and Gained experience in development of project on IOT based smart bulb.

## PROJECTS

- **Micro project: An IOT based smart LED Bulb** **Team Size: 4** **Duration: 10 days**
  - Based on the principles of internet of things using a local Web server to control switching and dimming of a LED lamp connected to the Arduino Uno. Also after switching off the LED, power consumed by it displayed on web page.
  - **Role: Software**
  - **Technology Used: Arduino, Python, PHP**
- **Design Project: Automatic Intravenous Fluid level Indicator** **Team Size: 4** **Duration: 4 Months**
  - A low cost RF based automatic alerting and indicating device where IR sensor is used as a level sensor for which the output voltage changes when intravenous fluid level is below certain limit. A comparator is used to compare the IR output with predefined threshold. When the transceiver output is negative then the Arduino controller alerts the observer by buzzer.
  - **Role: Design documentation**

- **Main Project : An IOT based sleep apnea detection using ECG signal**      **Team Size: 4**      **Duration: 10 Months**
  - o A real time monitoring of sleep apnea using ECG signal acquired with AD8232 ECG sensor. The SVM classification used to classify the apnea and non apnea data based on the features extracted from ECG processing in Raspberry Pi. An alarm indicated in case of apnea detection and an email sent to the doctor. The details of each patient displayed in web page.
  - o **Role: Hardware& Software**
  - o **Technology Used: Arduino,Python,PHP**

## ACHIEVEMENTS/ EXTRA-CURRICULAR ACTIVITIES

- NSS Volunteer ship of 4 years
- Participated in a workshop on python 2D game development as a part of Ritu'18 conducted by RIT Kottayam.
- Recipient of National Merit Cum Means Scholarship for the year 2015-2016.
- School topper for SSLC batch 2012 from St John's J.S.H.S Kanniattunirappu.
- Participated in tech fest -Tathva'17 conducted by NIT, Calicut.
- Participated in Technical Fest - Excel MEC conducted by College for each year from 2015-2018.
- Volunteer for the med expo -BioX conducted as part of excel 2017 conducted by College.

## PERSONAL DETAILS

- **Personal Strengths** : Confident and determined, Teamwork, Adaptability, Analytical thinking
- **Date of Birth** : 30<sup>th</sup> Oct 1996
- **Languages Known** : Malayalam, English & Hindi
- **Marital Status** : Single
- **Hobbies** : Listening Music ,dance, reading books

