Almitha Joju

Biomedical Engineer | Electronics | Medical equipments

Contact

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Education

SFI Svenska 2023 - Present
Komvux , Malmö

IT Tech For women 2023 - Present
Sundgården Folkhögskola ,Helsingborg

Biomedical Engineering 2016 - 2020
Sahrdaya College of Engineering and Technology, India

Skills

- Programming Languages: JavaScript, HTML, TypeScript, CSS
- Version Control Systems: Git
- MATLAB
- Arduino
- LabVIEW-simulation Tools
- Tina
- Proteus Design Suite
- PCB building and soldering

Experience

Maintenance Engineer

Aswini Hospital Kerala, India 2020 - 2021

- **Equipment Maintenance and Repair:** Calibration, Performance verification and certifications of biomedical equipment.
- **Equipment Testing and Quality Control:** Performed routine testing and quality control checks on medical equipment.
- **Risk Management and Safety:** identifying hazards, mitigating risks, and ensuring that medical equipment meets regulatory guidelines and standards.
- **Training:** provided training to medical staff on the proper use and maintenance of medical equipment.
- **Collaboration:** collaborate with medical professionals, such as doctors, nurses, and technicians, in surgeries and to understand their needs and challenges.
- **Emergency Response:** Called upon to troubleshoot and quickly fix malfunctioning equipment to ensure patient safety.
- **Documentation:** Properly documenting maintenance, repairs, and quality control activities is crucial for accountability and regulatory compliance and for NABH(National Accreditation Board Of Hospital).

Biomedical Engineer Intern

KIMS AL SHIFA Super Speciality Hospital, India 2019

Amala Medical College, India 2018

- Familiarized with different types of Hospital equipment and duty of biomedical engineer in a hospital.

Project

Thesis title: Breathe Analyst - Smartphone Based Real Time Non-Invasive Respiratory Rate Monitoring And Early Detection of COPD (Chronic obstructive pulmonary disease).

Description: A smartphone monitoring system which collects patient data (Respiratory Rate and COPD) using sensors and signal processing methods developed using MATLAB. The collected sensor data is stored could be used by doctor in an emergency situation for improved healthcare practices.

Achievements:

- Research Paper published in ResearchGate. 2020
- Shortlisted and Attended in Reboot Kerala Hackathon. 2020

Training & Certifications

- GE Sahrdaya Advanced Medical Engineering Program.
- NPTEL certification Courses (Biomedical Nanotechnology and English Language for Competitive exam).
- Sampark, workshop on MATLAB and MACHINE LEARNING conducted by IIT Madras.
- PIC Microcontroller and Embedded System Programming.