**SNEHA NOBLE**

**PROFILE**

Focused Biomedical Engineer, ready to join an organization with a professional work-driven environment where I can utilize and apply my knowledge and skills which would enable me as a fresh graduate to grow, while fulfilling the organizational goals.

**EDUCATION**

* **M.Tech Biomedical Instrumentation and Signal Processing**

**CGPA – 9.31 / 10**

Amrita Vishwa Vidyapeetham

* **B.Tech Biomedical Engineering**

**CGPA – 9.59 / 10**

Amrita Vishwa Vidyapeetham

* **Class 12** – 90.6%

Institution:

* **Class 10** – 96.6%

Institution:

**TECHNICAL INTERESTS**

Biomedical Insttrumentation

**PROJECTS**

**ECG Pre-Processing Module using Microcontroller**

**TKMIT, Kollam**

Developed an ECG Preprocessing Module using ESP-32 Microcontroller to extract pure ECG signal for clinical diagnosis.

**Design Project: MRCP Image Enhancement**

**TKMIT, Kollam**

Enhancement of MRCP images for pancreatic cancer detection using software.

**Arm-Volume Measurement for Early Lymphedema Detection using Kinect Sensor in Post-Surgical Oncology Patients**

Developed a Non-Invasive Method to detect Lymphedema of the arms in women after treatment for breast cancer

**TECHNICAL SKILLS**

KiCad, LabVIEW, MATLAB, C, C++, Python, MS Power Point, MS Excel, MS Word, MeshLab, 3D Viewer, ImageJ, SDK for Kinect, TDD

**INTERNSHIP**

**Intern**, Philips Innovation Campus Bangalore

MR R&D Scanning and Reconstruction - Worked on simulation of MRI signal (in Python and C==) and application of reconstruction algorithms and parameters for improving the image contrast and resolution; also, performed Test-Driven Development efficiently using Google Test framework in C==.

**Hospital** **Intern,** Holy Cross Hospital, Kottiyam, Kollam

Study of clinical applications of medical instruments used in the hospital for improving patient care.

**Intern**, AlphaTech, Kochi

Study of Robotic Surgery Machines and Anesthesia Machines

**CERTIFICATIONS**

Medical Device Quality and Regulatory Affairs

MedCuore EDIO Training

Mechanical Ventilation (Online Course)

Harvard Medical School

Easy Medical Devices Online Course

Immunology, Neuroscience, Sociology of Science

NPTEL Online Course

Clinical Trial Analysis & Reporting Training

Internshala

Patient Monitor Testing

Fluke Biomedical Online Course

Medical Imaging Techniques, 3D Printing

MedCuore EDIO Training

FDA’s Role in Public Health

U.S. FDA and Amedco LLC Training

ISO 13485:2016- QMS for Medical Devices

Alison Online Course

Drug Discovery, AI, COVID-19

CourseEra

Medical Implants Design

FORCE Biomedical Training

MRI Fundamentals

CourseEra

**LANGUAGES**

English, Malayalam, Hindi