

VIDHYASREE P G

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SUMMARY

Final-year Biomedical Engineering student with hands-on experience in medical imaging, medical device integration, and technical documentation. Skilled in identifying workflow gaps, contributing to healthcare product development, and applying programming tools like Python to enhance open-source platforms such as 3D Slicer. Eager to contribute to clinical research and development teams through a combination of analytical thinking, technical skills, and collaborative work ethic.

EXPERIENCE

RTWO HEALTHCARE SOLUTIONS

Bangalore, IN

Product Application Intern

Jul' 24 - May' 25

- Conducted a detailed gap analysis of more than 5 medical image analysis platforms.
- Identified opportunities to improve functional capabilities in 3D Slicer, leveraging Python programming to build open-source alternatives.
- Contributed to the streamlining and automating workflows in 3D Slicer to improve visualization of medical imaging.
- Supported the integration of biomedical devices with software platforms, enabling automated data handling and structured export workflows.
- Assisted in a wide range of product-related activities including documentation, regulatory compliance preparation, product demonstrations, and internal knowledge sharing.

GURUDHARMAM MISSION HOSPITAL

Thrissur, IN

Biomedical Engineering Intern

Jun' 23 - Jul' 23

- Assisted in the maintenance, calibration, and functional checks of essential medical equipment, including ECG machines, infusion pumps, and patient monitors.
- Participated in daily equipment rounds across departments such as ICU, OT, and radiology, ensuring devices met operational and safety standards.
- Gained hands-on exposure to preventive maintenance protocols, hospital biomedical workflows, and basic regulatory compliance.
- Contributed to reducing equipment downtime by supporting timely fault identification and resolution under the guidance of the Senior Biomedical Engineer.

EDUCATION

LOVELY PROFESSIONAL UNIVERSITY

Phagwara, IN

Bachelor of Technology, Biomedical Engineering

Aug' 21 - Present

CGPA 7.47

CHINMAYA VIDYALAYA KOLAZHY

Thrissur, IN

Higher Secondary Education (PCMB)

Jun' 19 - Mar' 21

Percentage 95.8%

PROJECTS & HACKATHONS

- Academic Projects:
 - Hand Gesture to Text Converter: Arduino-based system translating gestures to text on an LCD.
 - Smart Wheelchair: Designed a prototype with stair-climbing capabilities and smart features.
 - Third Eye for the Blind: Built an Arduino Uno-based obstacle detection tool for visually impaired.
 - Student Attendance Calculator: Developed C++ application to track and analyze student attendance.
 - Clap Switch Circuit: Designed sound-triggered LED circuit using 555 timer.
 - Community Development Project: Volunteered for sustainable agriculture initiative with Punarnava Healing Community.
- Hackathons:

- CELESTA Hackathon – Developed an individual medical chatbot project using API integration and conversational design during a 24-hour university event.

ADDITIONAL INFORMATION

- Programming: Python, C, C++, C#, MATLAB
- Tools: 3D Slicer, 3DICOM, PSpice, ZWCAD, Proteus, Figma, Adobe Photoshop
- Languages: Fluent in Malayalam(native), English; Conversational Proficiency in Hindi
- Certifications:
 - ISO 13485:2016 for Medical Devices QMS – UDEMY Course
 - ECG Training Program – BPL Medical Technologies
- Soft skills: Strong communication, collaborative research, and problem-solving abilities.