



SANTHA SEELAN A

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Pallakadu, Pallakadu post
Trichy 620102
TamilNadu

SKILLS

- Clinical Concepts
- Programming: C++, Python
- Simulation & Modeling:
Geant4, ROOT
- Operating Systems: Linux
(Ubuntu)
- Matlab
- TPS: Monaco

LANGUAGES

- English (Fluent)
- Tamil (Fluent)
- Hindi (Intermediate)
- German (Basic)

REFERENCE

Dr.G.Bharanidharan

Asst.Professor
Anna University, Chennai

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PROFILE & CAREER OBJECTIVE

Aspiring Medical Physicist with a background in radiation transport simulations and computational dosimetry. Experienced in developing Geant4-based models for proton therapy, including dose and LET prediction for clinical CT data. knowledge in C++ and Python for data analysis. Seeking a Medical Physics internship to gain clinical experience in precision radiation therapy.



EXPERIENCE

Observationship

JUNE 2025

Omega Hospitals, Hyderabad

- Completed clinical observation training within the Department of Radiotherapy.
- Gained hands-on familiarity with the Elekta Synergy Linear Accelerator (Photon and Electron energies).
- Observed departmental protocols, treatment workflows, and patient safety procedures under the guidance of the clinical physics team.
- Observed and assisted in Quality Assurance (QA) protocols for the Elekta Synergy system.

Project

DEC 2025 - MAY 2026

- **Title:** High-Fidelity Radiation Transport Modeling: Advanced Geant4 (Monte Carlo) Simulation of PBS Delivery Systems and Comparative Dose, LET and Radiobiological Effectiveness (RBE) Analysis
- Developed a Geant4-based simulation for a Generic PBS Nozzle and validated the Spread-Out Bragg Peak (SOBP).
- Conducted a Comparative RBE Model Analysis to evaluate biological dose distributions in heterogeneous media.
- Guided by: Dr. G. Bharanidharan, Asst. Professor, Anna University.



EDUCATION

M.Sc Medical Physics

2024 AUG - 2026 MAY

Anna University, Chennai

B.Sc Physics

Bishop Heber College, Trichy | Bharadhidasan University