Dawson Sanchez

Medical Physicist

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STRENGTHS

Collaboration
Worked effectively with diverse teams at numerous stages of projects, winning credibility from colleagues.

Technical Proficiency
Deftly utilized various software tools in research projects, demonstrating confidence and expertise under pressure.

Quality Assurance
Championed QA initiatives resulting in systematically improved accuracy in treatment delivery, sparking peer recognition.

Data Analysis
Employed analytical methodologies to assess treatment efficacy, understanding core metrics critical for driving informed decisions.

Adaptability
Thrived in fast-paced clinical environments showcasing resilience and readiness, responding efficiently to challenges.

SKILLS

Medical Physics | Radiation Therapy | Quality Assurance | Data Analysis | Team Collaboration | Technical Documentation | Patient Safety | Clinical Reviews | Treatment Plans | Equipment Calibration | Communication | Stakeholder Management | Problem-Solving | Research Methodologies

SUMMARY

Dedicated Medical Physics graduate with extensive project experience in clinical environments and advanced radiation therapy techniques. This role emphasizes collaboration with multidisciplinary teams, ensuring patient safety and delivery of precision treatments. Proven skills in developing QA protocols, aligning efforts with regulatory standards, and improving operational efficiency stand out. Strong commitment toward innovative cancer care solutions guides aspirations in the medical field, ready to contribute technical expertise and academic knowledge while prioritizing patient outcomes and fostering effective teamwork.

EDUCATION

Master's Degree in Medical Physics

University of Illinois GPA: 3.8 2026 Urbana, IL

Coursework: *Radiation Therapy, Quality Assurance, Medical Ethics, Data Analysis*

TECHNICAL SKILLS

- **Radiation Therapy Equipment:** Linear Accelerators, Brachytherapy Systems, Treatment Planning Systems
- **Quality Assurance Methods:** Statistical Process Control, Acceptance Testing, Workflow Optimization
- **Regulatory Compliance Standards:** AAPM, ASRT, IAEA
- **Medical Software Tools:** Eclipse, Oncentra, Varian
- **Data Analysis Techniques:** SPSS, MATLAB, Python
- **Documentation Standards:** ISO 13485, ASTM E2500, IEC 60601
- **Clinical Workflow Approaches:** Chart Rounds, Care Coordination, Patient Education
- **User Training Practices:** Workshops, Simulation Sessions, Peer Mentoring
- **Risk Management Processes:** Incident Reporting, Root Cause Analysis, Continuous Monitoring
- **Technical Communication Skills:** Report Writing, Presentations, Stakeholder Engagement

EXPERIENCE

Medical Physics Intern

University Research Lab June 2025 - August 2026 Springfield, IL

Provided support in a university research lab focusing on quality assurance in radiation therapy equipment and patient safety. Collaborated closely with faculty and peers on testing and evaluation projects, enhancing clinical strategies while adhering to regulatory guidelines.

- Collaborated with faculty to develop quality assurance protocols, enhancing patient safety.
- Conducted evaluations of treatment plans ensuring they aligned accurately with physician intent.
- Assisted in calibration and performance testing of radiation devices for improved operational efficiency.
- Participated in clinical instruction sessions sharing insights on best practices in medical physics.
- Engaged in chart rounds facilitating communication between physicians and technical staff.
- Maintained documentation of procedures, reinforcing compliance with regulatory safety protocols.

Radiation Therapy Optimization Developer

Capstone Project January 2025 - May 2025 Springfield, IL

Led a team to optimize radiation dose calculations, creating tools that contributed to improved treatment precision. The project emphasized data evaluation against industry standards, fostering innovation while illustrating problem-solving abilities within clinical settings.

- Led a project optimizing radiation dose calculations, contributing to enhanced treatment outcomes.
- Developed prototype software for real-time monitoring, safeguarding during therapy sessions.

Software Development

Project Management

LANGUAGES

English — Native

Spanish — Proficient

MY CAREER

- Medical Physics Intern at University Research Lab (1.2 Years)
- Radiation Therapy Optimization Developer at Capstone Project (4 Months)

- Presented findings and received recognition for innovative approaches to challenging clinical issues.
- Utilized advanced techniques for analyzing patient outcome efficacy based on treatment data.
- Collaborated with faculty advisors ensuring project alignment with professional standards.
- Compiled comprehensive reports detailing outcomes and offering future research recommendations.

LEADERSHIP & AWARDS

- Dean's List - University of Illinois, 2023-2026
- Best Presentation Award - Medical Physics Conference, 2025

CERTIFICATIONS

- Medical Health Physics (MHP) Certification 2026

PROFESSIONAL AFFILIATIONS

- Member, Medical Physics Student Organization, University of Illinois
- Volunteer, Community Health Awareness Program, Springfield, IL

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST