

# ALEXANDER WOODS

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## ANSI 3.1-1971 SENIOR RADIATION PROTECTION TECHNICIAN

Highly motivated and proficient Radiation and Health Physics Professional, with an in-depth understanding of the application of nuclear regulations, guidelines, nuclear facility and general public health concerns. Exhibiting strong leadership and organizational development skills in representing American Nuclear Society as the elected President and further developing skills in Radiation Protection, Health Administration, Safety, and Engineering through educational endeavors. With a diverse background and skill set, capable of managing multiple projects, providing superior internal and external customer service, and always striving for operational excellence.

### AREAS OF EXPERTISE

- Radiation Protection
- Instrumentation
- Dosimetry Applications
- Respiratory Protection
- Oral & Written Communications
- Atomic Nuclear Physics
- Engineering Technology
- Industrial Hygiene
- Teamwork & Leadership
- Computer-Aided Design (CAD)
- Safety & Regulatory Procedures
- Strategic Planning/Analysis

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### EDUCATION & TRAINING

**Associates of Applied Science, Engineering Technology, Concentration: Radiation Protection,**  
Chattanooga State Community College, Chattanooga, TN, May 2013 **GPA: 4.0**

**NUCP Certification (INPO Certified),** May 2013

**Diploma in Fine Arts, North Carolina School of the Arts,** Winston-Salem, NC

**Computer Proficiencies:** MS Office, VSDS, HIS-20, RADS, Horizon, Adobe Acrobat, OneNote, AutoCAD, Sophos Encryption, Linux based Genesis System, ISST Construction Management, NECHO Expense Reporting, Typing Speed: 70WPM

**NUF - 98% DOE CORE EXAM - 98% NRRPT CERTIFICATION 40 HR HAZWOPER CERTIFICATION**

### NUCLEAR & HEALTH PHYSICS EXPERIENCE

#### OAK RIDGE NATIONAL LABORATORY

##### UT BATTELLE

07/13/18- PRESENT

**HIGH FLUX ISOTOPE REACTOR/COLD GUIDE HALL NEUTRON SCATTERING RESEARCH SUPPORT** - Responsible for assigned duties including instrument inventory, dosimetry inventory and issuance, sample and material management with respect to the disposition of potentially activated items, job coverage, routine operations and radiological oversight of research activities conducted in the Cold Guide Hall and Beam Room facilities of the HFIR.

##### LANCASTER SERVICES, INC.

12/19/16-07/12/18

**HIGH FLUX ISOTOPE REACTOR** - Shift Radiological Control Technician responsible for radiological oversight to support Operations personnel, day to day facility operation and radiological support for neutron scattering experiment activities in the Beam Room and Cold Guide Hall.

##### BARTLETT NUCLEAR, INC.

**WATTS BAR NUCLEAR, SPRING CITY, TN**

12/15/15- 11/21/16

UNIT 2 StartUp support including baseline surveys throughout various power ascension plateaus. Assigned as lead technician for Unit 1 Lower Containment, high risk special project work. Following project completion, assigned to Dry Cask campaign.

**SEQUOYAH NUCLEAR, SODDY DAISY, TN**

11/09/15-12/06/15

**U2R20** outage. Assigned to Upper CTMT. Provided support for high risk coverage including core barrel movement, under head inspections, thimble tube cutting and removal, and equipment extraction from containment equipment pit.

**WATTS BAR NUCLEAR, SPRING CITY, TN**

3/10/14- 10/30/15

**WBN U1R13** outage. Provided support for high risk evolutions including head lift, upper internals move, core barrel move and cavity decon. Conducted pre-shipment surveys for numerous outgoing shipments.

Provided job coverage for U2 startup activities. Provided RP support and coverage for transfer canal repair project activities. Supported radiography operations performed on U2. Submitted ALARA suggestions. Was recognized as a safety suggestion winner. Served as lead technician for U1 Fiber Free project activities in the U1 annulus and U1 lower containment.

##### TRITIUM CONSOLIDATION PROJECT

Provided RP support for multiple cask loads and shipments. Performed underwater surveys on various tritium consolidation components. Provided job coverage for equipment decon and cask loading evolutions.

**WBN U1R12 OUTAGE**

Assigned to Lower Containment. Pre-outage setup. SOP watch. Various daily, shiftly, weekly routines. Rover assistance.

**SEQUOYAH NUCLEAR, SODDY DAISY, TN**

10/7/13 - 11/14/13

**SQN U1R19** outage. Performed various routine surveys. Assisted senior staff with job coverage, setup/breakdown of remote monitoring applications, and rover duties. Worked upper and lower containment. Monitored personnel and activities at SOPs and RCA boundaries.

**BROWNS FERRY NUCLEAR, ATHENS, AL**

9/16/13 - 10/4/13

Performed HP related duties including establishing temporary RCA's, creating new surveys/maps in VSIDS, providing job coverage, transport/escort of RM in and out of RCA and protected areas, posting, contamination and radiation surveys/documentation, air sampling (PIT&NG) collection and counting.

**WATTS BAR NUCLEAR, SPRING CITY, TN**

8/27/13 - 9/13/13

Assisted in various operations both routine and job specific including surveys, posting, and coverage of work.

**AMERICAN NUCLEAR SOCIETY, CHATTANOOGA, TN** **2011- 2013**  
**MEMBER & CHAPTER PRESIDENT (2012 TO 2013), CHATTANOOGA STATE COMMUNITY COLLEGE**

A non-profit, international scientific and educational organization for which professionals unify their common goals and activities within the diverse fields of nuclear science and technology

- Launching educational and community involvement initiatives to promote the mission of the organization in supporting awareness, understanding, and advocacy for nuclear science and technology.
- Creating general awareness of American Nuclear Society and commitment to healthcare and philanthropic obligations by volunteering in programs with special needs children at Siskin Children's Institute.

**PUBLIC OUTREACH CAMPAIGN** **2013**  
**ORGANIZER & VOLUNTEER**

Liaising with representative of the East Tennessee Chapter of the Health Physics Society to develop a public educational, outreach program launched in April 2013 as the first of its type at Chattanooga State.

- Organizing seminars and educational offerings with the involvement of many industry professionals who will give presentations regarding concepts of health physics and common misconceptions of radiation.
- Developing visual, interactive demonstrations for the public to learn about first hand applications and detection methods and giving participants the opportunity to ask questions of experts in the field.

**OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TN** **2013**  
**TOUR COORDINATOR & VOLUNTEER**

For the purpose of educating students and increasing awareness of the applications of health physics.

- Initiating, qualifying, developing, and implementing a tour of numerous relevant sites; determining tour content, length of visit, number of attendees, and gathering all required security information for site tour.

**MOX FUEL PUBLIC HEARING, CHATTANOOGA, TN** **2012**  
**PARTICIPANT WITH AMERICAN NUCLEAR SOCIETY**

A public hearing informing the public and media about nonproliferation benefits of the mixed-oxide (MOX) fuel program.

- Organizing 60+ students in support of the cause, to increase publicity and awareness of the disposition of surplus weapons-grade plutonium as mixed-oxide (MOX) fuel for use in power reactors, resulting in a standing-room-only public hearing.

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**PROFESSIONAL EXPERIENCE**

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**LOWE'S OF ATHENS, ATHENS, TN** **2009 - 2012**

- DEPARTMENT MANAGER, INSIDE SEASONAL (2010 - 2012)
- DEPARTMENT MANAGER, ADMINISTRATION (2010)
- CUSTOMER SALES ASSOCIATE (2009 - 2012)

**WEST WIND TECHNOLOGY, INC., ATHENS, TN** **2000 - 2008**  
**NURSERY & SHIPPING MANAGER**

- Designing and constructing state of the art greenhouse, shadehouse, and irrigations systems for plantation establishment and managing domestic and international shipping of live plant materials.
- Receiving training in patented laboratory protocols for somatic embryogenesis and multiplication of selected species of bamboo and *Arundo donax* (giant reed grass) for use as biomass feedstock.

**VIVIERO AZTECA, PIÑA SUAREZ, VERACRUZ, MEXICO** **2003**  
**PRODUCTION MANAGER**

- Training local workforce in propagation techniques and utilizing positive mass selection protocols.
- Designing and constructing nursery, receiving station, irrigation system, and shadehouses; managing maintenance and maturation of bamboos for 100ha area.

**JACKSONVILLE ELECTRIC, JACKSONVILLE, FL** **2002**  
**PROJECT MANAGER**

- Establishing control group of plant material for energy content analysis for electrical energy production from biomass and consulting on species selection of plant material for analysis.
- Tracking and assimilating data from inception to testing of mature biomass crop of woody grasses.

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**AWARDS & OTHER DISTINCTIONS**

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**Various Scholarships Awarded, Nuclear Regulatory Commission, for GPA 4.0 (Top of Class), 2012 - 2013**

**Dean's List, Chattanooga State, 2012 - 2013, Graduated Summa Cum Laude**

**Phi Theta Kappa National Honor Society, Chattanooga State, 2012 - Present**

**First Ever Award Recipient, Kent Hamlin Memorial Scholarship, American Nuclear Society, 2012**

**Certified SCUBA Diver, 1989 - Present**