

ROBERT ALEXANDER LEFEBVRE

Oak Ridge National Laboratory
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Education:

May 2009 **University of Tennessee - Knoxville**
Master of Computer Science
Final GPA: 3.86/4.0

Fall 2007 **University of Tennessee - Knoxville**
Bachelor of Science, Computer Science
Overall GPA: 3.73/4.0 Magna cum Laude

Work Experience:

05/2009-Present **Oak Ridge National Laboratory - Nuclear Science and Technology Division**
-Nuclear Systems Analysis Design and Safety - Radiation Transport and
Criticality Group, **Research and Development Staff**

Responsibilities include:

- Working with SCALE code managers to maintain and enhance existing tools used to input and visualize data to radiation transport codes.
- Develop state of the art Graphical User interface and visualization software.

05/2008-05/2009 **Oak Ridge National Laboratory, NESLS Intern**

Responsibilities included:

- Working with SCALE code managers to maintain and enhance existing tools used to input and visualize data to radiation transport codes.
- Developed prototypic FJORD (Fortran Java Optimized Ray-traced Display) to interactively visualize geometry models from Monte Carlo radiation transport codes using 2D and 3D ray tracing techniques coupled directly with FORTRAN through a unique interface combining a multi-threaded Java driver program and parallel FORTRAN programs.
- Completed SCALE 6 upgrades of GeeWiz interface by adding items to existing dialogs and creating new dialogs to enable use of SCALE 6 input features.
- Programming languages include Visual C++, MFC, and Java.

08/2007- 05/2008 **Daxor Corporation, Software Engineering Consultant**

Responsibilities included software, and technical document consultation for FDA regulated nuclear medicine instrumentation suite. Programming languages included Visual C++, C# .Net.

01/2007-05/2009 **University of Tennessee Knoxville, Computer Science Teaching Assistant**

Responsibilities included instructing students in graphical user interface development and scripting languages. (PHP, JavaScript, Python, XHTML, XML, PERL, etc.)

Professional Activities:

08/2008- Present **SARRC Corporation, Founder and Vice President**

Students for Academic Recruitment and Retention in Computing (SARRC), an organization

dedicated to increasing enrollment and retention of individuals in the computing field at the undergraduate and graduate level. Responsibilities include technical documentation, personnel management, fund raising and development and maintenance of computing curriculum.

Citizenship: United States of America