

# HILDA B. KLASKY

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## DEVELOPMENT STAFF PROFILE

— Software Development • Full Life Cycle Project Management • Engineering —  
— Research & Development • Cross-Functional Collaboration —

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*Offer multidisciplinary expertise spanning hands-on development, high-level solutions design, and project management and delivery for complex technical and regulatory initiatives.*

*Facilitate collaboration, cooperation, and consensus with diverse cross-functional colleagues to deliver high-quality solutions aligned with program objectives, technical specifications, and regulations.*

*Highly flexible and adaptable, willing to take on a broad range of roles to ensure effective support of project and contract requirements and customer expectations.*

### — CORE COMPETENCIES —

Innovative Solutions Development • Requirements Definition • Technical Specifications  
Process Analysis / Improvement • Stakeholder Engagement Management • Team Management  
Federal Regulatory Compliance • DOE Q Clearance • Spanish Fluency

### — STANDARDS & METHODS —

J2EE Design Patterns • Distributed Programming • Object Relational Mapping (ORM) • Rational Unified Process (RUP)  
Object-Oriented Programming & Development (OOD / OOP) • Unified Modeling Language (UML) • ISO 9001  
IEEE Standards Application • Capability Maturity Model (CMM) • ASME NQA-1

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## PROFESSIONAL EXPERIENCE

OAK RIDGE NATIONAL LABORATORY (ORNL), Oak Ridge, TN

**Development Staff Member**, 2009 – Present

Core member of Computational Structural and Fracture Mechanics Team, Modeling and Simulation Group in ORNL's Computational Sciences and Engineering Division (CSED). Leverage expertise across software development, task leadership, cross-functional collaboration, engineering, and research & development, taking on specialized roles to support program / contract needs. Serve as site license coordinator for ABAQUS commercial finite element modeling software. Nominated as Employee of the Month for outstanding leadership. Team earned ORNL Significant Event Award for contribution to life extension of Palisades Nuclear Power Plant. Hold Department of Energy (DOE) Q Security Clearance.

### US Nuclear Regulatory Commission (WFO) Contract:

- **Probabilistic Structural and Material Modeling (ProSaMM), IAA No.: NRC-HQ-60-15-T-0007.**
  - Supported development of new probabilistic models to integrate with and fill gaps identified in established knowledge base for RPVs and piping systems.
  - Supported development of risk-informed alternatives to current regulatory guidance, standard review plans, Code of Federal Regulations (CRF), and other guidelines.
  - Performed development and maintained databases, knowledge management systems, and other archiving tools to retain knowledge and enable easy access to engineers.
- **Reactor Embrittlement Archive Project (REAP).**
  - Assembled and led multifunctional team from several divisions to construct framework for national repository and regulatory tool housing all irradiation data generated by 100 US nuclear power plants.
  - Held full accountability for defining and managing project schedules, tracking and reporting on progress, responding promptly to change requests, and monitoring / controlling project risks.

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- Directed development of REAP application to manage data produced from testing small specimens irradiated in a set of capsules, part of in-reactor surveillance programs at all US nuclear power plants.
  - Researched and evaluated system architecture, worked with subject matter experts (SMEs) to prepare technical specifications, and recommended hardware / software solutions in conjunction with NRC Management and ORNL IT team.
  - **NRC Extremely Low Probability of Rupture (xLPR) Consortium Project.**
    - Orchestrated development of open-source implementation for xLPR pilot solution for computational probabilistic analysis ultimately integrated into existing Structural Integrity Assessment Modular-Probabilistic Fracture Mechanics (SIAM, ORNL-designed problem solving environment for NRC) to create SIAM-xLPR for Phase I of xLPR.
    - Implemented software development and maintenance framework with SVN for version tracking, JIRA for change tracking, and Confluence for calendar and wiki.
    - Served as Quality Assurance Team Leader for Phase I.
    - Achieved on-time project delivery resulting in high marks from independent evaluators.
  - **Web-based Knowledge Management System.**
    - Developed system to manage extensive archive of computational data and technical documentation generated to support a risk-informed basis for ASME Appendix G methodology for normal start up and shut down of nuclear power plants.
- Light Water Reactor Sustainability (LWRS) Program:*
- **INL/ORNL Case Study using GRIZZLY and RAVEN focusing on Reactor Pressure Vessel (RPV) – Pressurized Thermal Shock (PTS).**
    - Verified remote communications between ORNL and INL to test MOOSE/RAVEN/GRIZZLY applications on-site.
    - Assisted INL in performing risk analysis of RPV subjected to PTS scenarios via applications of MOOSE/RAVEN/GRIZZLY as part of demonstration case study.
- Other Contracts / Projects:*
- **Electricite de France (French National Electrical Utility) Project.**
    - Served as lead author on interim report describing probabilistic integrity calculations using FAVOR code of French-designed RPV subjected to PTS in order to quantify Beaver Valley (US) transients used in PTS studies, as well as effect of warm pre-stressing and crack arrest.
  - **Belgium-FANC Project.**
    - Served as primary editor and co-author of final report detailing technical review of safety case submitted to FANC regarding structural integrity of RPVs in Belgian nuclear power plants (Doel 3 and Tihange 2). Performed thorough assessment of existing safety margins against cracking resulting from deterioration due to laminar flaws. Report proved instrumental in allowing federal authorities to restart two nuclear plants.

NATIONAL AUDUBON SOCIETY, Edison, NJ

**Java Applications Developer, 2003 – 2009**

Led development of enterprise Web application dynamically integrated with Oracle relational databases. Created stored procedures and scripts for parsing and processing large volumes of financial data. Gathered requirements and guided development following best practices and standards. Established procedures and conducted exhaustive unit, integration, and system testing. Remedied code defects and ensured optimal application performance prior to release. Supported product implementation. Mentored and trained junior team members.

*Key Achievements:*

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- Successfully delivered major system initiatives using J2EE design and Java Web techniques, including: developing APIs to move data to / from Oracle database using XML and Excel in .pdf and .csv formats; testing using Junit; and configuring Apache Tomcat Cluster and Tomcat Web Server.
- Enhanced, developed, and administered the high-profile Christmas Bird Count Application including the Historical and Current Year data entry tools; led development of the Regional Editor, Circle Donations, and Administrator modules using Oracle, Hibernate, Spring, Java, and Struts.
- Developed core functionality for the Important Bird Areas project; built site search tool, streamlined processes, and resolved bugs using Oracle, Hibernate, Spring, Java, JSP, and AJAX.
- Spearheaded development of the Online Payment Application using JOSSO framework, Oracle back-end, Hibernate, Spring, JSP, and Velocity templates resulting in elegant, robust application for secure credit card transaction processing via VeriSign.

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*Prior experience as **Software Engineer** with Panasonic Technologies, **Web Database Developer** with Advice and Counsel, Inc., **Web Developer** with Outpost Outpost, **Research Associate** with NPAC, Syracuse University, and **Software Engineer** with Computacion en Accion S.A DE C.V.*

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## TECHNICAL PROFICIENCIES

Languages / Scripts: C, C++, CGI, CORBA, DHTML/HTML, FORTRAN, Java, JavaBeans, JavaScript, JSP, JSTL, Jython, PL/SQL, Perl, PHP, Python, Servlets, SQL, Unix shell, XML

IDEs / Frameworks: Eclipse, Emacs, XEmacs, UltraEdit, JBuilder, JDeveloper, JOSSO, Springs, Struts, Velocity

API / Tools: Ant, Java Mail, Java Swing, JUnit, Hibernate Core & Hibernate Annotations, log4j, Lambda Probe, XDoclet, Apache 2.2, Tomcat 5/5.5, CVS, JMeter, MS Office Suite, Project, Visio, Oracle APEX & Oracle DB Administration, Subversion (SVN), Mercurial, Git, Test Director, Visual SourceSafe, WinRunner, Confluence, JIRA, Wiki, INL MOOSE Framework, INL Grizzly & Raven Libraries

Databases: Oracle, Postgres, MS Access, MySQL

Platforms: Linux (Ubuntu, SuSE, Red Hat), Microsoft Windows, UNIX

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## EDUCATION AND CREDENTIALS

### **Master of Science in Computational Engineering**

RUTGERS UNIVERSITY, North Brunswick, NJ

### **Bachelor of Science in Computational Science**

UNIVERSIDADE DE GUADALAJARA, Jalisco, Mexico

### **Professional Development**

Oracle APEX ~ Oracle DB Administration ~ Project Management ~ Software Design & Modeling Techniques (UML) ~ Managing the Software Process ~ Financial Engineering ~ Information Mapping ~ Time Management ~ ORNL Technical Project Officer ~ Application of NQA1 SQA to DOE ~ Unified Modeling Language (UML)

### **Publications, Presentations, Additional Project Details**

Available upon request