

JASON CARNEAL

ARTIFICIAL INTELLIGENCE LICENSING ENGINEER

CONTACT

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- Silver Spring, MD
- [View Full CV](#)

EDUCATION

- B.S., Engineering Mechanics
Virginia Tech, 2001
- M.S., Engineering Mechanics
Virginia Tech, 2004
- General Assembly**
Data Science, 2020, JavaScript, 2023
- NRC Qualifications**
Licensing PM, Rulemaking PM

SKILLS

- Artificial Intelligence
- Project Management
- Data Analysis / Visualization
- Nuclear Licensing / Oversight
- Programming / Automation
- Communication
- Teamwork
- Critical thinking
- Adaptability

ACHIEVEMENTS

- Meritorious Service Award**
Nuclear Regulatory Commission
2024
- Group Performance Awards**
Nuclear Regulatory Commission
2025 (2), 2024 (6), 2023 (2), 2022 (3)
- Individual Performance Awards**
Nuclear Regulatory Commission
2024, 2023, 2022(2), 2021, 2020

PROFESSIONAL OVERVIEW

I am a self-motivated individual who is always eager to learn and apply new skills. I have successfully performed various roles in engineering, data science, artificial intelligence, and project management. My current focus is advancing the use of artificial intelligence and automation to improve the efficiency of regulatory processes and support data-driven decision-making.

RELEVANT WORK EXPERIENCE

Project Manager (New Reactor Licensing / Artificial Intelligence)
Nuclear Regulatory Commission, Rockville, MD | 2025 – present

- Manage multiple high-visibility and time-sensitive new reactor licensing projects, including large light-water reactors and microreactors.
- Apply artificial intelligence tools to improve the efficiency of new reactor licensing processes.
- Support efficient, data-driven, and risk-informed decision making.

Reactor Systems Engineer / Data Scientist

Nuclear Regulatory Commission, Rockville, MD | 2017 – 2025

- Apply artificial intelligence to enhance efficiency of regulatory processes, including operating experience and reactor oversight.
- Produce high quality operating experience datasets, visualizations, and search tools to support data-driven decisions.
- Deliver short-turnaround AI tools and data products for critical topics of interest (e.g., EO 14300 wholesale regulation review).

Project Manager (Rulemaking)

Nuclear Regulatory Commission, Rockville, MD | 2014 – 2017

- Managed complex and controversial rulemaking projects with high public, industry, and Commission visibility.
- Identified, assembled, and led working groups composed of technical, legal, and regulatory experts to accomplish high-priority agency activities.
- Provided regular briefings to high-level NRC management on status and progress of assigned tasks.

Program Manager (DDG-1000 Hull Form Plan)

NSWC Carderock Division, Bethesda, MD | 2011 – 2013

- Managed a large team of engineers, scientists, and technicians performing advanced computational methods, model scale testing, and ship hardware integration associated with DDG-1000.
- Regularly briefed stakeholders up to and including the Assistant Secretary for the Navy.