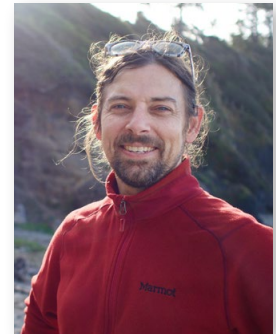


## Implementing Systems Engineering for Small Modular Reactor Design

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### Mr. Matt Hahn

Supervisor, Systems Engineering Analysis and Architecture at NuScale Power, LLC.



Mr. Matt Hahn

### Abstract

Small modular reactor designers aim to improve existing commercial nuclear technologies while also leveraging the benefits of modern manufacturing to reduce project risks. NuScale Power pursues these goals through a tailored systems engineering approach that develops tools and methods to support product development and ensure successful delivery. NuScale’s systems engineering approach emphasizes three product views (requirements, product structure, and functional architecture) and employs integrated, risk-informed decision processes. The above techniques support a product development framework that can also be understood in the context of the traditional systems engineering “vee” model.

### Biography

Matt Hahn serves as Supervisor, Systems Engineering Analysis and Architecture at NuScale Power, LLC. His work focuses on the tailored application of systems engineering tools to product development. Before NuScale, he worked as a mechanical engineer in support of Military Sealift Command vessels. He previously served in the U.S. Navy as a surface (nuclear) officer and graduated from the Naval Postgraduate School in 2005. He lives in Corvallis, Oregon and is a licensed professional engineer with the State of Washington.

