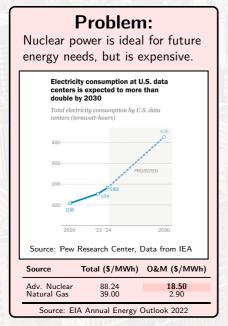
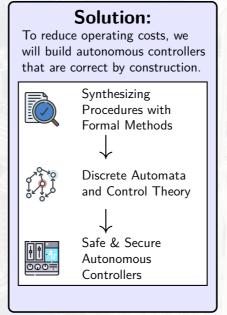
## High-Assurance Autonomous Nuclear Reactor Control with Emerson Ovation

Dane A. Sabo, NRC Fellow | Advisor: Dr. Daniel G. Cole

**Goal:** Develop autonomous hybrid control systems with mathematical guarantees of safe and correct behavior that lower operating costs for nuclear power.





## **Proof:**

To reach TRL 5, we will build a demonstration using hardware-in-the-loop (HiL) simulation with an Emerson Ovation control system.

