The tendency in modern software engineering practices is towards removing disconnects among its activities by employing continuous practices to achieve agile processes. After Test-Driven Development (TDD) bridged the gap between implementation and testing, Continuous Integration (CI) and Continuous Deployment (CD) attacked the disconnect between development and deployment. Behavior Driven Development (BDD) establishes a practice based on the behavior specifications from the end-user perspective. It builds upon TDD and promotes a semi-formal ubiquitous language for the specification of behaviors that is accessible to all the stakeholders of the system. BDD aims to come up with executable as well as a human-readable specification of the system.

While formal methods have long been praised by the dependable Cyber-Physical System community, continuous software engineering practices are now employing or promoting semi-formal approaches for achieving lean and agile processes. This research project investigates using Behaviour Driven Development, particularly Gherkin and RSpec for Avionic DevOps, DevOps for Avionic Systems.