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## Test Automation in Industrial Automation

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Barath kumar has 7 years of experience in modeling, programming, simulation, and testing of manufacturing automation systems. He is currently working as a scientist at institute for Industrial Information Technologies (iIT), Lemgo, Germany. In parallel to his job, he is pursuing his doctorate in computer science, which is expected to be completed this year.

His main interests include:

- Automatic test case generation and test execution for testing automation systems,
- Hardware-in-the-loop and software-in-the-loop testing,
- Simulation based fault detection in manufacturing plants, and
- Virtual commissioning of production systems.