



# Internship – Automated code testing for embedded control devices

ABB Turbocharging is using a software development platform dedicated for c-code based embedded controllers. Before code release, proper code testing is a crucial process step. To improve the efficiency as well as the reliability of the code testing, test automation is a common approach.

The scope of this intern is to develop and extend automated code tests for software models (Simulink), code and code integration based on a currently used test framework.

<b>Location:</b>	Baden, Aargau, Switzerland
<b>Job Function:</b>	Information Technology
<b>Employment Contract Type:</b>	Internship, Full-Time
<b>Division/Function:</b>	Industrial Automation
<b>Business unit:</b>	Turbocharging
<b>Publication ID:</b>	CH60479612_E1

## Tasks

- Develop test cases according to a software specification for: model, code and target
- Validate the tests and models with measurement data
- Develop and extend the test automation based on an existing test framework
- Integrate the framework into the existing Software Development Platform

## Requirements

- Student in an engineering or computer science discipline
- Good Experience in Matlab/Simulink modeling
- Basic knowledge in MS Visual Studio, MS Team Foundation Server, and in script writing would be an advantage
- Familiarity with or interest in the area of embedded controller and/or turbocharging
- Fluent in English or German

## Additional Information

ABB is able to offer you an interesting role within a highly motivated team, together with open communication structures. On the basis of a personal, practice-oriented introduction program, you will be given the opportunity to acquire the confidence needed to work independently as well as be a constructive member of an inclusive team within your assigned area.

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