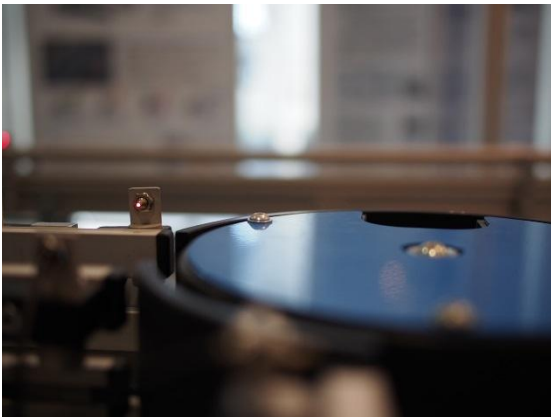
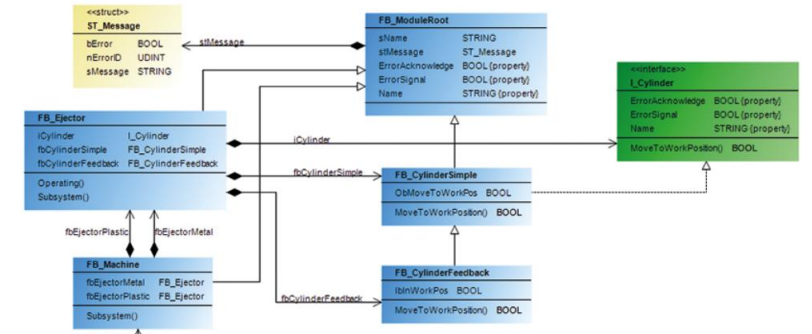




Reliable Software through Meta-Languages: Modeling PLC Software via GUIs (HiWi)

Want to change the way we design industrial control systems? This project focuses on using graphical tools like UML to model PLC software visually, making it easier to understand, modify, and optimize. You'll explore how meta-languages can simplify complex control processes and improve communication between devices.



<https://www.beckhoff.com/de-ch/produkte/automation/twincat/tfxxx-twincat-3-functions/tf1xxx-system/tf1910.html?>

You'll get hands-on experience with meta-languages to simplify and model complex control processes, all while bridging the gap between devices and improving communication in industrial settings. The goal? To create an efficient, user-friendly development environment that boosts the reliability and performance of control systems.

Join us and help shape the future of industrial automation, where you'll not only learn cutting-edge design techniques but also have a real impact on how PLC systems are built and optimized for tomorrow's industries.

- Strong knowledge of Python, ideally in PyQt
- Interest in PLC Programming (prior knowledge beneficial but not required)
- Independent work ethic and interest in industrial automation

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