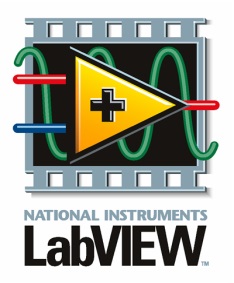
**Migration of LabVIEW into the Test**

**of magnetic Properties**

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**Summary**



This project deals with the migration of a measuring-system for magnetic properties in a new environment. Main task of this project was the mapping of Pascal-Code into the graphical coding language of LabVIEW. Further work was done regarding enhancing the program by code optimizations as well as the implementation of some new features (e.g.: overcurrent protection, graphical user interface …).  
The result is a more user-friendly and reasonable code for the latest hardware that can be used to identify the main characteristics of transformer sheets.

**The Project**

|  |  |  |  |
| --- | --- | --- | --- |
| **Subroutines Virtual Instruments** | **Flow Chart** | | **Simple State Machine** |
| * hardware communication * mathematical operations * plotting   \\rsns01\smmame00$\Desktop\MechatrProjekt\magneto.git\trunk\doku\70_Dokumentation\98_Bilder\99_Bilder_Doku\Entmagnetisierung.png |  | | * All states set up according to the flow chart * Used for triggering events   \\rsns01\smmame00$\Desktop\MechatrProjekt\magneto.git\trunk\doku\70_Dokumentation\98_Bilder\99_Bilder_Doku\State Maschine_3.png |
| **Graphical User Interface (GUI)** | **Plot View** |
| * 3 tabs (main view, options, plot view) * fully functional without the LabVIEW software | | * overview about all properties * can be saved in different ways | |