

HiWi, Bachelor, or Study project Control software for NMR experiments

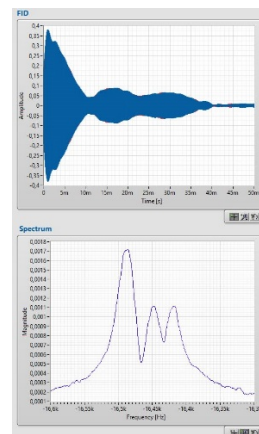
Nuclear magnetic resonance (NMR) spectroscopy is a very powerful diagnostic tool that uses nuclear spins as nanoscopic probes inside molecules to elucidate their structure and concentration in an unknown solution. At our Institute, we are working on the next generation of integrated NMR-on-a-chip transceivers for high- and low-field NMR.

In this thesis/HiWi project, you will rebuild and extend our existing NMR experimental software. You will port the existing software from LabVIEW to Python and validate the functionality of your code in measurements on our prototype spectrometers.

Requirements:

- ✓ Basic knowledge in software design (Python, Matlab, LabVIEW)
- ✓ Basic knowledge in analog and digital circuit design

Duration: 3 months (or upon agreement), 40 hours per month (or upon agreement)



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