

Report guidelines for FP3: Elektronischer Regler

T. Northup

April 27, 2012

The report should include:

- demonstration of a basic understanding of the principles of PID control, including
 - a motivation for why the technique is important
 - an explanation of the central concepts
 - any key terms and equations used later in the analysis
 - properly cited references to the literature (Wikipedia is a useful starting point but not an acceptable citation)
 - a Bode plot with and without feedback as described in section VI of the script
- a thorough description of the setup and the work that was carried out
 - note that diagrams or photos are not necessary but may be helpful; if included, they should be explained
- presentation and discussion of results:
 - what control circuit was realized? how did it work?
 - what was observed and measured? why?
 - how do the results compare with what one would expect?
 - any graphs include labeled axes with units, error bars, and a legend
 - results have correct precision, error bars, and units
 - how could the experiment be improved?

It should not need to be stated that all text is in the authors' own words. Images which are not the authors' own are properly cited. It is expected that students have gone beyond the script to draw information from other sources, which should be properly cited.

The report can be written in either German or English. If you decide to write the report (or part of it) in English, I will give feedback on the writing style, but errors in grammar or style will not affect the grade as long as the main points are clear.