# Assignment 5

## Bicycle Odometer – Module Internal Design Document

We continue with our simple bicycle odometer from the last assignments, again. You shall now document the internal design for that work assignment (i.e., module) which *you* have been assigned to, which is the software.

This really should have been done *before* your implementation, but it was prevented by the necessary sequencing of the lecture's content. We now do it immediately afterwards, before memory fades.

### a)   Structure of the Document

State the questions that the module internal design document must answer. Refine the questions until each defines one section. The solution to this part shall be handed in separately. It shall be a list of hierarchically structured questions. The list shall define one and only one place for every fact. Use slides 131–135 as background. Take the example solutions for Assignments 1–3 as a base, and your own implementation for Assignment 4.

Think carefully about whether you need to reproduce all or parts of the example solutions in the module internal design document. Give a rationale of your decision, in addition to the above list of questions.

This part is more difficult than it appears. It is therefore worth 50% of the entire assignment.

### b)   Content of the Document

Write a module internal design document by answering your questions. Follow the advice on usable documentation given in slides 140–161 ("A rational design process: how and why to fake it").

This part is only worth 50% of the entire assignment.

Submit your solution by email (and, if possible, on paper) to `brederek@tzi.de` (as a PostScript or Pdf file).