When designing the LabVIEW system, some criteria where chosen as listed:

* The system shod be easy to understand the overall structure of the code.
* The system shod be robust so that smaller oversite of in any part of the code shod not result in a complete stop of the system. (A graceful exit is acceptable for more major errors.)
* The system needs to be able to validate its sensors to ease the work needed for hardware debugging.
* The system shod be flexible so that no major changes need to be made to the core structure to implement new features in the form of sensors and outputs.
* All data from inputs and outputs need to be available from external hardware without changing the core.
* The system components need well defined purpose and reasonability in the system.

The first method proposed for this task is the “broadcasting system model”. It is pretty easily understood and provided a greater flexibility when it came to sharing data within the system.

The system is divided into modules where each module has a specific task. One of such modules is the Digital Read/Write Module witch read/writes, checks validity and distributes the data via the system broadcasting. Another module is the External service module which is responsible for communication with external programs via TCP. This service will allow for pull request of any data that is sent via the Broadcasting system. It will as well send in data such as controller inputs, shutdown commands and Self Evaluation commands.

[INFOGA EN FIN BILD PÅ STRUKTUREN HÄR]