

Software based resource usage determination

Background:

Many applications require the use of multiple resources to carry out a task, for example motors, drivers or sensors. The resources' energy usage is often specified in a data sheet and might not be representative for the specific use case. With the purpose to minimize the energy usage, a system which can detect and show each resource's energy usage could be useful for further optimization of the system.

Description and objective:

- Design a small, modular system which can determine the energy usage of each resource within a target system.
- Determine if a resource is efficiently used or over/under-dimensioned.
- Calculate the energy savings by detecting system optimization possibilities using the resource tracking.

