A Software Framework To Create Management Applications For Experimental Didactic Activities In Iot Based Smart Labs
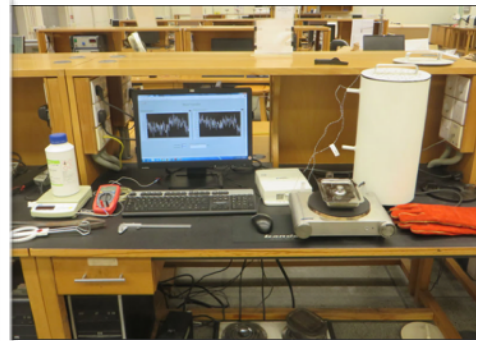
Prof. Wellington W. F. Sarmento
wwagner@virtual.ufc.br
Instituto UFC Virtual
Universidade Federal do Ceará

PhD student at PPGEE

The advancement in the use of IoT technologies can be seen in the process of automating homes, buildings and industries. The use of this technology applied to didactic laboratories allows a semi-supervised action of students in experimental activities. The present work helps the software developer to create applications it can communicate with Smart Labs based on IoT and allow the management of experimental activities. Order of topics to be shown:

• Context of virtual and intelligent laboratories

• Web applications frameworks

• Use of Cloud Native Applications to support high-demand environments

• Patty Framework overview