

Summary

This document reports the work made by Daniel José Santos da Silva in the company Critical Software, SA, within the scope of the Project from the Integrated Master degree in Informatics and Computing Engineering (*Mestrado Integrado em Engenharia Informática e Computação* – MIEIC) at the University of Porto, Faculty of Engineering (*Faculdade de Engenharia da Universidade do Porto* – FEUP), which took place between October 1st and March 7th at Critical Software's facilities in Porto, Portugal.

The project's theme was the development of a converter, part of an Engineering Data Analysis system, which would transform binary STDF (Standard Test Data Format) files into editable XML (Extended Markup Language) based EXF (Engineering Data Analysis Exchange Format) files. This process involved a study of the existing platform and the semiconductor manufacturing process, a requirements definition phase, system modelling, a test case specification, the solution development and the consequent system testing.

The main goals of the project were fulfilled and the initially planned activities were carried out successfully. A preliminary version of the developed solution is already available to be used in the company and the project described in this document is currently on open status in Critical Software.