Ford Romania Internship Program
Project Work Plan

Project Name:	Emulation of an FOX 1.0l engine in a test rig	**Supervisor Name:**	Nicolae Comnea
Department Name:	PTO Quality Manager	**Supervisor CDSID:**	**ncomnea**
Domain of Project:	Testing	**Supervisor Position#:**	**Manager**

Project Description

In Faculty of Mechanics or at INCESA exist the possibility to dyno various engines. The difficulty consist in to emulate key function matrix that the engine could be controlled on all available parameters from outside when running on the bench.

Measurable Objectives

Enhance the ability of students to understand engine test purpose
Extend the capacity/ability of the plant to test engines also outside PTO facilities
Allow the PTO team to understand better hot to make a rig functional and wich is the key function matrix that is used to run engines in to a rig

Expected Major Contributions

A study of minimal requirement in terms of controls to be used to cranck, fire up and run over the complete available speed range.
Replicate the results in the plant for better understanding of hot run/dyno cells functions and interfaces

Expected Benefits to Intern

To get familiar with DOE's strategy and test rigs
To get familiar with hard/software equipment in automotive

Intern Qualifications (schooling, work experience, major)

- Automated test equipment in deep acknowledgment
- DOE training
- W/H specific looms
- Minimal requirements for an IC moden engine to start and run