

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 cranc, 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