

# Ford Romania Intern Program Internship Workplan



<b>Project Name:</b>	Multispindle M/C Project	<b>Supervisor Name:</b>	D. Iova
<b>Department Name:</b>	Maintenance	<b>Supervisor CDSID:</b>	diova
<b>Assignment Location:</b>		<b>Supervisor Position#:</b>	Maintenace Senior Eng.
<b>Project Description</b>			

Objectives: Improvement of CHASSIS 2 underbody screws tightening in an automatic manner. The Project means to modify one existing installation depending on the needs in line. It is required a high degree of accuracy and synchronization.

Electrically speaking, it's a challenge because there are a lot of (different size) bolts & nuts position underbody to be tightened with different torque in a specific order depends by car type. The rate of accuracy in function needs to be higher than 99%. The most complicated issue that needs to be solved is to modify an existing PLC program – SIEMENS : STEP 7 – to be adapted for Craiova's production.

Therefore it is proposed to build a multi task tightening system.

Project name: **Multispindle M/C**

## Measurable Objectives

Identify and tight the underbody screws and nuts;  
Identify improper tightening torque

## Expected Major Contributions

Identify opportunities for CHASSIS Line efficiency.

## Expected Benefits to Intern

Eliminate breakdown generated by actual manual tightening

## Intern Qualifications (schooling, work experience, major)

Vision of process  
Technical knowledge