Ford Romania Intern Program
Internship Workplan

Project Name:	**HUB & KNUCKLE REDESIGN**	**Supervisor Name:**	Daniel Iova
Department Name:	TC & FINAL	**Supervisor CDSID:**	**diova**
Assignment Location:	DRESS-UP – HUB & KNUCKLE M/C	**Supervisor Position#:**	**SENG.**

Project Description

The most of accidental stoppages at Hub & Knuckle Press are caused by equipment display failure. The equipment's display drives the pressing action by communicating with bidirectional with PLC and, also with peripherals devices. In case of display failure entire system is dysfunctional – the production stops. Because of high price of new one acquisition there are necessary two solutions:

1. A way to bypass the display – manually pressing operation;
2. A solution for replacing display's function with inexpensive one.

Taking into consideration that after this kind of stops are inadmissible, the scope of the project is to solve the above request two points.

Measurable Objectives

Reduce maintenance costs.
Reduce production looseness.
Eliminate all safety risks to press manually the bearing.

Expected Major Contributions

Study and understand of display's functions.
Design of necessary modifications for using press in manually mode without display's functions.
Redesign of cheaper solution for replacing the display.

Expected Benefits to Intern

To get familiar with hub & knuckle pressing process.
To get familiar with automation for pressing process.
To get familiar with data analyze and implement their.

Intern Qualifications (schooling, work experience, major)

Automation / Computer Engineering:

- PLC's knowledge.
- PC's hardware configuration.
- Technical drawing
- 3D design