

# Ford Romania Intern Program Internship Workplan



<b>Function Name:</b>	PBSC	<b>Supervisor Name:</b>	Costi Circiumaru
<b>Department Name:</b>	IT	<b>Supervisor CDSID:</b>	ccircium
<b>Assignment Location:</b>	Craiova	<b>Supervisor Position#:</b>	IT Manager

## Project Description

### Name: Algorithm for mixing cars in Painted Body Storage

Implement a scheduling and mixing algorithm to move the vehicles from Painted Body Store to Trim Shop in as close to optimal order as possible. The bodies must be selected from Painted Body Store taking into consideration FIFO, part shortage, production constraints and the availability of store's facilities. Urgent orders must be processed firstly without any restriction.

## Measurable Objectives

- List of vehicles which must be moved from Painted Body store to Trim shop
- Tunnel size in real time
- Time for moving of a body from Painted body Store to Trim shop

## Expected Major Contributions

- Support the production department by providing the optimal order of vehicles on the production line
- Latest information technologies applied in production
- Chance for students to know the production reality

## Expected Benefits to Intern

- Optimize the production flow by a good balancing of the complexity of operations
- Reduce the production time for a vehicle
- Increase the flexibility and control by the local operators

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

- Must be studying for Engineering related degree
- Good programming skills
- Basic knowledge about production area
- Ability to work with others in a team environments

## Acronyms

PBS – Painted Body Store  
 PBSC – Painted Body Store Control  
 MP&L – Material Production & Logistic  
 PVS – Production Vehicles Scheduling  
 T/C final – Trim and Chassis Final  
 VIN – Vehicle Identification Number  
 BCR – Bar Code Reader