

Ford Romania Intern Program Internship Workplan



Function Name:	Improve the detection of parts in 8C 130 station	Supervisor Name:	C.Stanculescu
Department Name:	Maintenance	Supervisor CDSID:	cstancul
Assignment Location:	Body Shop	Supervisor Position#:	Maintenance Senior Eng.
Project Description			

When the robot from 8C-120-R3 are putting the parts in 130 station and because the parts received from stamping are not exactly the same, the sensors from 130 station does not detect all the parts and the robot from 8C-130-R1 cannot take some parts from the 130 station. The consequence is repeated breakdowns.

We propose to add on the robot gripper two additional fixtures in order to eliminate the repeated breakdowns.

Project name: Improve the parts detection in 8C-130 station.

Measurable Objectives

Improve the MTTR & MTBF

Expected Major Contributions

Increase the Up-time for the line.

Expected Benefits to Intern

Decrease breakdown time

Intern Qualifications (schooling, work experience, major)

PLC Programmer
Technical knowledge
Vision of process

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Project Work Plan



Function Name:	VO	Supervisor Name:	Nica Mirela
Department Name:	Paint	Supervisor CDSID:	mnica1
Assignment Location:	Paint Shop	Supervisor Position#:	Process Eng.

Project Description

Paint defects database (software):

Software where can be introduced& collected the paint defects and filtered& compared later after some criteria's:

- Name
- Description
- Picture
- Identification after the picture consider a plus
- Date
- Identification location
- Panel

Measurable Objectives

The software has to facilitate the paint defect review and the comparison (based on a similar protocol with the Police Database searching the thieves).

Expected Major Contributions

Software built according with the specifications and eventually improved with features added by the student.

Expected Benefits to Intern

Detailed understanding of the paint defects
Develop software build capabilities
Working in team abilities growth
Working in a professional environment

Intern Qualifications (schooling, work experience, major)

Analytical skills
Software writing abilities
English knowledge

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Project Work Plan



Function Name:	IT Manager	Supervisor Name:	Costi Circiumaru
Department Name:	IT	Supervisor CDSID:	ccircium
Assignment Location:	Craiova	Supervisor Position#:	

Project Description

Name: Using Augmented Reality for company presentations and predictive maintenance

Build an application, for computer and smartphone use, which will use augmented reality (3D) for presentation of each shop in the plant and for various predictive maintenance activities

Measurable Objectives

- Realize professional presentations of each shop in the plant using AR (Augmented reality)
- AR for Preventive Maintenance provides simple and accurate information to the right people, at the right place and in the right moment

Expected Major Contributions

- Up to date presentation with latest info
- Reduce maintenance time

Expected Benefits to Intern

- The application can be globalized, it can be exported in other Ford Factories
- The application can be used as a template to develop other routes

Intern Qualifications (schooling, work experience, major)

- Ability to work in Team environment
- Programming on mobiles phones environment
- Developing apps in AR form mobile or PC's

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Project Work Plan



Function Name:	IT Manager	Supervisor Name:	Costi Circiumaru
Department Name:	IT	Supervisor CDSID:	ccircium
Assignment Location:	Craiova	Supervisor Position#:	

Project Description

Name: Safety VR (Virtual reality) glasses – simulator

Build an application, for computer and smartphone use, which will allow to train the users about the safety standards, Simulating via VR glasses the real situation in the real world. Transform in VR the most important and relevant safety single point lessons

Measurable Objectives

- Create VR apps which will allow users to see and understand safety rules
- VR should reflect “real world” and the consequences of not respecting safety rules , procedures

Expected Major Contributions

- Reduce number of work related accidents
- Reduce training time and make the training more effective, simulating real examples

Expected Benefits to Intern

- The application can be globalized, it can be exported in other Ford Factories
- The application can be used as a template to develop other routes

Intern Qualifications (schooling, work experience, major)

- Ability to work in Team environment
- Programing on mobiles phones environment
- Developing apps in VR for mobile or PC's
- Setting up VR glasses