

Ford Romania Intern Program Internship Workplan



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

The most of accidental stoppages at Strut Assembly Machine are caused by equipment failure during strut pressing process because of strut lower end misaligned. The equipment's failed to act because of also strut upper end is misaligned and the strut system nut cannot be tightened.

During pressing process if the strut lower end isn't aligned also the upper end is misaligned. There is necessary that the lower end to be aligned enough to avoid nut untighten. It was found a manual solution to center the strut rod but this solution doesn't ensure the necessary tact time.

Taking into consideration that this kind of stops mean production loss, the scope of the project is to solve the centering / aligning of strut lower end.

Measurable Objectives

- Reduce maintenance costs.
- Reduce production looseness.
- Eliminate all safety risks to press after the strut is manually centered.

Expected Major Contributions

- Study and understand of process unfolding.
- Design of necessary modifications for correct alignment.
- Redesign of a cheaper solution for strut lower end positioning.

Expected Benefits to Intern

- To get familiar with strut pressing process.
- To get familiar with spatial alignment (axes, dimensions, angles,...) for pressing process.
- To get familiar with data analyze and implement their.

Intern Qualifications (schooling, work experience, major)

Mechanical Engineering:

- Measuring tools usage.
- Technical drawing
- 3D design