

**Any reference to or logos belonging to Toyota have been removed, also specific numbers relating to production have be removed ** ► STUDENT BACKGROUND ◄

ACADEMIC EXPERIENCE: 4th Year Mechatronics Engineering Student - University of Waterloo (Graduating April 2008)

Ford Motor Company (Industrial Eng.) (Elec Eng.), General Motors (Manufacturing Eng.), Valiant Automation (Controls Eng.) CO-OP EXPERIENCE: CURRENT POSITION: TMMC - West Body Pilot - Manufacturing Engineering - Reporting to Ryan XXXX

► PERSONAL OBJECTIVES ◄

Gain knowledge and practical experience in the latest manufacturing technologies.

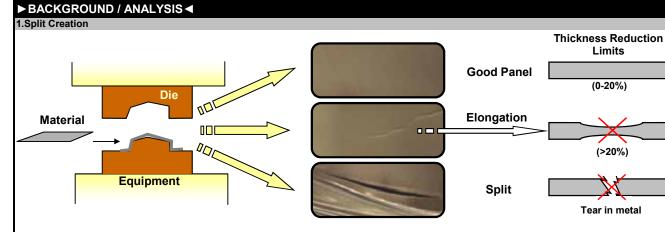
2) Improve project management skills, specifically planning, coordinating, and communicating effectively

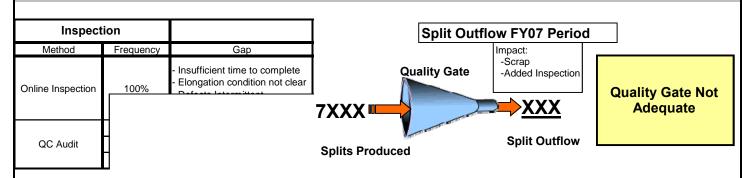
Planned Actual	Eng.		Ma	ay			Ju	ine				July	/			Aug	gust		Status an	lt.
Planned Actual	Supt.	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27	Evaluatio	n
1. Automated Press Panel Split Detection						1														
 Feasibility Study of Thermography 	R.W.				•	1													100%	
 Production Trial 						1			•										100%	
 Analysis of Results 	R.W.					i			_				-						100%	
 Kaizen the Process and Repeat Trial 						ļ									-				100%	
 Evaluation and report 	R.W.																•		100%	
2. Snake Robot / Datum Accuracy & Repeatability	R.W.																		100%	
3. Cyclops Inline Weld Quality	R.W.																		100%	
4. AGV Specification						1													100%	
Completed O On Schedu	ule	Δ	Behi	ind S	chec	dule,	Can	Mee	t De	adlin	е		X	Will	Not	Meet	t Dea	adline		
► HIGHLIGHT PROJECT ◄																				
OBJECTIVE: Evaluate use of thermal imaging f	or the purpo	ose o	f split	t dete	ectior	n on	stam	ped	pane	els										
	0% correla																			

2. Current Method

ULTIMATE GOAL: Quality Control:

Implement in all presses and reduce shipped parts with splits to 0.





3. Alternative methods										
Plant	Method	Concerns	Eval.							
ххххх	Acoustic	Cannot detect elongations Required Sensors in very close proximity to the split Significant interference from ambient noise								
ХХХ	Differential Thermal Imaging	Cannot detect elongations Many false rejects								
XXXXX	Shockline Monitoring	Some parts do not have a visible shockline								

