

Skills Summary

Substantial experience welding, soldering and working with electronic

 circuits; developed by working with electronics, computers and automotive electrical systems

Comfortable working with and on computers.

Familiar with a wide range of software:

	Controls	RSLogix (PLC5), DVT, Cognex, Rapid, ControlNET, DeviceNET, SISO Tool, Simulink
	Productivity	Win 9X/NT, Linux, Word, Access, PowerPoint, Excel, Project, Outlook
	Design	AutoCAD, Solidworks, Illustrator, Fireworks, Photoshop
	Development	Matlab, MathCAD, Labview, C/C++, VB, Dreamweaver, Flash, HTML
	Starting to Learn	AJAX, PHP, Ruby on Rails, MySQL
-		

- ✤ Excellent working independently and as a team
- ✤ Quick learner and good at thinking outside of the box
- ✤ Ability to adapt to various working conditions and apply analytical skills
- Fluent in both English and Portuguese languages. Intermediate level Spanish
- Pending US Permanent Resident application Employment Authorization Document
- ✤ WHIMIS training gained through course of academic study

Education

	Candidate for Bachelors of Applied Science in:	
Waterloo	Mechatronics Engineering	September 2003 -
Sector 1	-Option in Biomechanics	Present
-	-Option in Management Science	

- Relevant Courses: Mechatronics, Sensors, Digital Controls, Circuits, Image Processing, Algorithms and Fuzzy Logic
- ✤ One of few students attempting two engineering options.
- ✤ Excellent academic standing and cumulative average of 80+%.

Work Experience



- Responsible for researching and developing solutions for several industry problems
- Worked extensively on automated split detection for pressed panels and repeatability of snake welding robots.
- Designed, tested and **patented** innovative way of detecting splits using differential calculus, Labview and thermal imaging.
- Worked with hardware manufacturers to trial and test potential hardware configurations.
- Technology has potential to save well over \$2 million/plant at current scrap rate and received **outstanding job rating**, plus an offer to return
- Worked long hours and willing to put the time in to get the job done. 60 hour weeks was not uncommon



- Responsible for implementing modifications required for the GMT900 truck launch
- Work was primarily in the Wheel/Tire room and involved improving reliability, cycle time and quality of the manufacturing process
- Major projects include the redesign of the robotic stemmer, vision system scheduling and modifications to accept GMT900 rims
- Changes **saved** in excess of \$200,000 and received **outstanding job rating**, plus 2 offers to return

	Ford Motor Company, Windsor Operations	1st term
	Industrial/Electrical Engineer	Aug 04 - Jan 05
Ford	Ford Falcon Engine Launch - Assembly and Machining	2nd term
	Steam Cogeneration - Optimizing Boiler	May 05 - Aug 05

Term 1

- Responsible for coordinating productivity improvements
- ✤ Used leadership skills to lead a team of coops
- AutoCAD was used for 3D modeling of various items required for production
- Helped launch the Falcon sports car engine which required process changes and line balancing

Term 2

- Optimizing steam turbine downtime and cost analysis at the Ford Powerhouse for electrical generation
- Æ Excellent rating from employer



Interests

N



Responsible for designing and developing predictive traction control to stabilize oversteer in vehicle

✤ System preemptively determines and prevents wheel slip



Assembling, overclocking and benchmarking high performance computers

- 3DMark, Sandra, Prime95, LAME, Crysis Liquid cooling, phase change
- ✤ Golf, bowling, hockey, fishing, and swimming