

## Franco Franchi

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**Summary of job description/responsibilities:** Product Senior engineer with over 25 years' experience working on research, design, development, procurement, validation and maintenance of wiring harness for pick-up, bus, trucks and diesel engines. Large knowledge in USCAR automotive electrical connectors, routing clips, brackets and supports. Work with suppliers to assure quality and on time delivery of components. Team lead on powertrain harnesses projects, design, testing, product launch and quality inspection. Currently working on the powertrain harness of a first prototype eMobile truck, becoming familiar with high voltage connectors and cables (up to 800V) such as HEMS and ITP. Design Release Engineer for 2021 MY injectors and sensors wiring harnesses.

### WORK EXPERIENCE

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- 02/2015 - Present     **Product Development Engineer, Sr. Team Lead, Navistar Inc., Lisle – Illinois**  
Designing new and converting existing harnesses to Mentor Graphics system (Capital Modular XC platform). Analyzing field wiring chafing issues by using the 8D process to find out the failure root cause. Testing new wiring harness covering materials to replace current convoluted conduit tubing. Instructor/trainer for Capital XC harness for Navistar.
- 06/2008 – 02/2015     **Senior Project Engineer, Navistar Inc., Lisle – Illinois**  
Product engineer for the V8 engine wiring harness for Ford and Navistar trucks from 1998 thru 2010. Created and maintained DFMEA and DVP&R documents for these harnesses, participated in developing build manuals. Designed 3D harness components on NX system, making SLA parts for trial/fitting purpose. Conducted necessary calculation before wiring harness design was completed, such as wire resistance, voltage drop and bundle size.
- 02/1990 – 05/2008     **Project Engineer, Navistar Inc., Lisle – Illinois**  
Support QS9000 quality system, visiting harness supplier plants in Mexico, Nicaragua, Germany and USA.  
Field support at engine plants in Indianapolis, Huntsville, and at Detroit/Windsor prototype shops. Trouble shoot lab test cell wiring harnesses, finding faulty electronic components on timing/temp/pressure sensors, electronic control modules and actuators.  
Created and maintained connector storage vault for the department.
- 06/1988 - 01/1990     **Electrical Drafter/Designer, Rockwell Automation (former Reliance Electric), Franklin Park – Illinois**  
Designed central office connectors for residential and industrial telephone systems on 2D CADAM software.
- 08/1986 - 05/1988     **Cadam Drafter/Designer, Chicago Rawhide Ltd, Elgin - Illinois**  
Designed automotive oil seals using 2D CADAM software.
- 03/1982 – 12/1984     **Project Engineer, Combustion Engineering Co., Sao Paulo – S.P. Brazil**  
Prepared specifications for chemical and petrochemical equipment.
- 03/1977 – 02/1982     **Project Engineer, Prosed Consulting Co., Sao Paulo – S.P. Brazil**  
Designed machine floor layouts, piping and air conditioning distribution systems for new or expanding factories.

## EDUCATIONAL BACKGROUND

### Certificates

03/2014	<b>Team Center – Unigraphics (NX 8.0), Navistar University</b>
10/2010	<b>Project Management Strategy, University of Chicago Booth Campus</b>
06/1986	<b>IBM CADAM 2D, DeVry University</b>

### Degrees

10/1996	<b>Associate of Applied Science in Electronics, DeVry University</b>
03/1977	<b>Bachelor of Science in Mechanical Engineering, University Maua – Sao Paulo, Brazil</b>
10/2010	<b>Project Management Strategy, University of Chicago Booth Campus</b>

## AWARDS

06/2006	<b>US Patent 7,059,288 – Retainer for Connector</b> Apparatus is capable of subsequently expanding to prevent the glow plug connector from being dislodged from the rocker carrier
07/2003	<b>US Patent 6,584,949 – Wire Guide for Electronically Controlled Fuel Injection</b> A plastic wire guide that routes and support two wires coming out from the open coils of the G2 injectors. The function of the wire trough is to prevent the wires to get pinched or cut by the valve train.
04/2003	<b>US Patent 6,539,905 – Glow Plug Connection Apparatus</b> This part provides a methodology of electrically connecting the glow plugs; located under the valve cover, with the external engine harness without the use of an under-valve cover harness, while sealing the engine from oil leakage.
06/2006	<b>US Patent 5,642,704– Engine Wiring Support with Oil Spill Deflector</b> A wiring harness support (metal channel) and under valve cover oil deflector formed from a single sheet metal blank.

## SKILLS AND COMPETENCIES

- Creativity, verbal and written communication skills, analytical and problem solving ability.
- Team player and detail oriented. Ability to make sketches, engineering drawings and common computations.
- Ability to read and interpret blueprints, technical drawing, schematics and computer-generated reports.
- Previous experience with computer applications and software related to engineering field.
- Portuguese is my native language, knowledge of Spanish and Italian