

# RODOLFO NEVAREZ

## ENGINEER



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### WHAT DO I DO?

I design products and services, manage projects, run user research, create 3D models, build and test prototypes.

### EXPERIENCE

#### INTEGRATION SPECIALIST

*CadMakers / 2019 – 2020*

##### Responsibilities:

- Create Structural (Mass Timber and Steel Systems) and/or Mechanical (Plumbing, HVAC and Electrical) 3D models for fabrication
- Virtual design and construction review of 2D drawings for all building elements (i.e. architectural, structural & mechanical) or any other 3D data file into one central 3D parametric model using CATIA
- Attend and support project coordination meetings, deliver live reports to clients and construction personnel for large AEC projects
- Manage revisions in the model that take place throughout the design and construction phases

#### R&D ENGINEER III

*Safran Seats US (Zodiac Aerospace) / 2017 – 2019*

##### Responsibilities:

- Project management
- Team lead of both Industrial Designers and Engineers
- Execution of new product development
- Mechanical design
- Co-author of R&D design guidelines and procedures for Mexico's R&D group
- Co-facilitator of design thinking workshops
- Crystal Cabin Awards finalist with Zodiac's Eco Zlounge

<http://www.crystal-cabin-award.com/cca-news-releases/article/24-pioneering-on-board-innovations-for-airliners.html>

<https://www.cnn.com/2018/04/01/crystal-cabin-award-finalists-feature-seats-suites-and-urinals.html>

### EDUCATION

#### STRUCTURING MACHINE LEARNING PROJECTS

Coursera  
2021

#### NEURAL NETWORKS AND DEEP LEARNING

Coursera  
2021

#### IMPROVING DEEP NEURAL NETWORKS: HYPERPARAMETER TUNING, REGULARIZATION AND OPTIMIZATION

Coursera  
2021

#### BUSINESS MODEL DESIGN (BOOTCAMP)

Vlerick Business School  
2016

#### MASTER'S DEGREE: RESEARCH FOR DESIGN AND INNOVATION

ELISAVA Barcelona  
School of Design  
and Engineering  
2013 - 2014

#### BACHELOR'S: ELECTROMECHANICAL ENGINEERING

Chihuahua Institute  
of Technology  
2005 - 2010

## EXPERIENCE CONTINUED

### DIGITAL INNOVATION ENGINEER / INNOVATION ADVOCATE

*Ford Motor Company / 2015 – 2017*

#### **Responsibilities:**

- Team member of the group in charge of promoting innovation and creative thinking among Ford employees
- Organizer of innovation challenges and design thinking workshops
- Facilitator of design thinking workshops
- Speaker at Ford's Innovation Week 2016
- 3rd place at Ford's Global Mobility Challenge

#### **Responsible for the design of rain sensor and camera covers of:**

- Mustang 2018, Lincoln Nautilus 2018, Ford Edge 2018
- Responsible for integration and packaging of electronic components inside the plastic covers
- Collaboration and coordination with design studio, engineers and suppliers for the development of rain sensor and camera covers

### INNOVATION CONSULTANT

*Hewlett Packard / 2013 – 2014*

#### **Responsibilities:**

- User Research (Ethnographic Observations, Photo and Video Research, User Interview, User Journey)
- Product/Service concept development
- Prototype coordination
- Communicate research results to customer (Hewlett Packard Design team)

### DESIGN ENGINEER

*Zodiac Aerospace / 2011 – 2013*

#### **Responsibilities:**

- Administration of work and technical resources
- 3D modelling for new or existing programs
- Knowledge and compliance of AIRBUS and BOEING specifications for ACI & Configuration drawings
- Review and create drawings for manufacture

### PRODUCT ENGINEER INTERN

*DANA / 2010 – 2011*

#### **Responsibilities:**

- Prototype design and construction

## SKILLS

MACHINE LEARNING

PRODUCT AND SERVICE DEVELOPMENT

BUSINESS MODELLING

PERSONAS

INTERVIEWING AND ANALYSIS

USER JOURNEY MAPPING

SERVICE BLUEPRINTS

STORY BOARD CREATION

## SOFTWARE

CATIA

SOLIDWORKS

AUTOCAD

## PROGRAMMING LANGUAGE

PYTHON

## LANGUAGES

ENGLISH

SPANISH

## AWARDS

### **FINALIST**

#### **ECO ZLOUNGE PROJECT**

CRYSTAL CABIN AWARDS

*Passenger Comfort Hardware Category*

### **3<sup>RD</sup> PLACE**

Ford Global Mobility Challenge

*Ride-On and/or Hands-On Category*