

## Juan Alejandro Contreras

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### PROFESSIONAL SUMMARY

Engineering graduate that has solid experience with computer programming languages. Skilled at converting concepts and ideas into a functioning prototype and improve it until it becomes the desired application. Patient, attentive to details and open to feedback and constructive criticism from others. Actively keeping myself informed and up to date with the latest available technology to developers.

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### WORK EXPERIENCE

*Freelancer - Web/Mobile App Development*

July 2017 – Present

- Created a grocery app that allows users to track what they buy in the supermarket with their chosen recipes
- Programmed the app for Android and iOS using Flutter

*Research assistant*

March 2015 – March 2017

**CMT Motores Térmicos** (R&D)

**Valencia, Spain**

- Implemented a mechanical losses model for a real-time engine simulation platform written in C++ and using Git as version control system
- Optimized a thermal balance analysis tool written in MATLAB
- Measured and acquired data from engine test bench

*Intern*

April 2014 – September 2014

**Groupe PSA** (R&D)

**Paris, France**

- Improvement study of the design process of an engine Start / Stop ignition system using MATLAB / Simulink. The results of this study helped identify the criteria that will allow a successful engine starting under different conditions.
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### EDUCATION

2<sup>nd</sup> year of Master of Science in Automotive Engineering

Attended in 2014

**École Nationale Supérieure de Techniques Avancées (ENSTA)**

**Bretagne, France**

1<sup>st</sup> year of Master of Science in Automotive Engineering

Attended in 2013

**Czech Technical University (ČVUT)**

**Prague, Czech Republic**

Bachelor of Science in Mechanical Engineering

Graduated in 2012

**University of Puerto Rico: Mayagüez Campus (UPRM)**

**Mayagüez, Puerto Rico**

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### SKILLS

#### Technology:

Matlab/Simulink, Flutter & Dart, HTML, CSS, JavaScript, Angular, IONIC, Git version control system, Slack

#### Languages:

Spanish: Native | English: Bilingual | French: Professional Working

BASED ON THE ILR SCALE