

Computer scientist skilled in the fields of mechanical engineering, machine learning and statistics. I have led or supervised the development of more than three novel methods for the application of machine learning to engineering problems.

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#### EXPERIENCE

#### Senior Research Assistant, Summer 2017 - Summer 2019

University of California, Merced

- · Led a team that developed an algorithm for the automatic selection of neural network models. Algorithm works for classification and regression problems. The obtained models yield an accuracy of up to 95%. Implemented in Python
- · Led a team that developed a machine learning method for estimating the remaining useful life (RUL) of jet engines. The method predicts the RUL of 75% of the tested engines with a confidence of  $\pm 5$  cycles. Implemented in Python
- Developed a machine learning method to detect faults in an HVAC system. The system performs online classification of faults in the system with an accuracy of 80%. Implemented in Python

#### Firmware Engineer, Fall 2015 - Fall 2016

Intel, Guadalajara

- Responsible of **BIOS** development for the PCH module: debugging and implementation of new features.
- Implemented new BIOS features for Intel's micro-server SoC such as IO Memory, Ethernet, IO devices.
- · Implemented support for wake-on-LAN and for the use of high IO memory on Intel's Denverton platform.
- Main used languages were C/C++ and Python.

#### Business Application Developer, Fall 2012 - Fall 2013

Anzen Consultancy, Mexico City

- Front end application developer for Citibank in Mexico.
- Implemented new features for Citi's web banking system such as balance inquiries and account statements.

# **EDUCATION**

## M.S. in Mechanical Engineering - GPA:3.6

University of California - Merced, Fall 2016 - Fall 2019

Thesis: "Application of Deep Learning Methods in the Treatment of Mechanical Engineering Problems." Relevant Coursework: Machine Learning, Controls, Dynamics, Numerical Analysis.

# M.S. in Computer Science - GPA:3.5

CINVESTAV-IPN, Fall 2013 - Fall 2015

Thesis: "A Continuation Method for Solving Mixed-Integer Multi-objective Optimization Problems." Relevant Coursework: Numerical Optimization, Statistics, Algorithm Design, Evolutionary Algorithms.

# B.E. in Computer Engineering - GPA:3.0

ESCOM-IPN, Fall 2018 - Fall 2012

Relevant Coursework: Object Oriented Programming, Database Design, Algorithm Design, Software Engineering.

#### COMPUTER SKILLS

#### LANGUAGES & SOFT SKILLS Python/C/C++ Java/Matlab/Excel Leadership Spanish $\bigcirc$ $\bigcirc \bigcirc \bigcirc \bigcirc$ Tensorflow/Simulink/R Unix/Fortran/SQL English Teamwork 000 $\circ \circ \circ$

### RESEARCH PUBLICATIONS

- Automatic Model Selection of Neural Networks. Preprint at Arxiv, 2019.
- · A Neural Network-Evolutionary Computational Framework for Remaining Useful Life Estimation of Mechanical Systems. Published at Neural Networks, Vol. 116, 2019.
- Enhanced Directed Search: A Continuation Method for Mixed-Integer Multi-Objective Optimization Problems. Published at Annals of Operations Research, 2018.