

# Emmanuel Bustos

## Software Development Engineer

An electrical engineer from the University of Costa Rica graduated with honors in the computers and networks emphasis, with experience on several programming and hardware description languages, computer architecture (CPU and GPU), gate and transistor level systems and also knowledge in several areas like statistics and machine learning. Very methodical individual with high coding/documentation standards and sharp collaboration and communication skills acquired working both in highly collaborative environments and in open source projects. Seeking career progression bringing a fresh perspective and an open mind willing to learn.

✉ ema2159@gmail.com

📞 +506 8730 9726

🌐 [linkedin.com/in/emmanuel-bustos-3b8a48129](https://www.linkedin.com/in/emmanuel-bustos-3b8a48129)

## WORK EXPERIENCE

### ASIC Verification Intern Hewlett Packard Enterprise

09/2018 – 09/2019

#### Achievements/Tasks

- Worked on an investigation on the incorporation of Machine Learning techniques in functional verification methodologies. Gained experience in areas like data analysis and machine learning, and learned tools like Google's Tensorflow and Keras along with many Python libraries like NumPy, Pandas, Matplotlib among others.
- Hands on experience with UVM methodologies and functional, random constrained and coverage driven verification.
- Implemented an interface for communicating Python with the e verification language through the C-Python and e-C APIs on an UVM environment.
- Process and infrastructure definition and automation using scripting languages like Bash, Perl and Python.

Contact: Manuel Artavia – [manuel-alejandro.artavia-alpizar@hpe.com](mailto:manuel-alejandro.artavia-alpizar@hpe.com)

## EDUCATION

### Bachelor Degree in Electrical Engineering with emphasis in computers and networks Universidad de Costa Rica

03/2015 – 07/2019

*Graduated with honors averaging 9.18 in all career courses without failing a single course throughout the career.*

## SKILLS

Python	●	●	●	●	●
UNIX Scripting (Bash)	●	●	●	●	○
Pandas, NumPy, Matplotlib	●	●	●	○	○
Tensorflow/Keras, Scikit-Learn	●	●	●	○	○
Git/Github	●	●	●	●	●
Object Oriented Programming	●	●	●	●	○
C/C++	●	●	●	●	○
LaTeX	●	●	●	●	○
Java	●	●	●	○	○
HTML/CSS	●	●	○	○	○
Javascript	●	●	○	○	○

## AWARDS

### Obtained Engineering Degree with honors (03/2015 – 07/2019)

*Graduated with honors from Electrical Engineering at the Universidad de Costa Rica, averaging 9.17 out of 10 in all career courses without failing in any course throughout the career.*

### Graduated from High school with honors (02/2010 – 12/2014)

*Obtained high school diploma with honors scoring over 90 out of 100 in all high school graduation exams in 2014.*

### Physics Olympiads awards

*Two honorable mentions at the National Physics Olympiad in years 2013 and 2014.*

### Remarkable musical career (03/2006 – 06/2014)

*Three times winner of the honor student concert's contest during my musical career with the violoncello in the Universidad de Costa Rica*

## LANGUAGES

English ● ● ● ● ●