Yarib Israel Nevárez Esparza.

Place and date of birth: Durango, Mexico. 05/26/1986
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Education.

Spring 2009	**Bachelor of Engineering in Electronics** Instituto Tecnológico de Durango (México)
Fall 2017	**Master of Science in Embedded Systems Design** University of Applied Sciences Bremerhaven (Germany)

Professional experience.

Current – June 2022	**NXP Semiconductors** (*Post-Doctorate Researcher*) Investigation of strong neural network quantization, custom floating-point, and novel on-device learning approaches for resource-constrained analytics.
May 2019 – May 2022	**Institute of Electrodynamics and Microelectronics, University of Bremen** (*Doctoral Studies*) Dissertation: "Low-Power Neural Network Accelerators: Advancements in Custom Floating-Point Techniques"
January 2018 – May 2019	**Carbon Robotics Inc** (*Embedded Systems Engineer*) Hardware/Software co-design of embedded Linux platform for robotic applications on embedded FPGA.
May 2017 – October 2017	**E.I.S. Electronics GmbH** (*Master Thesis Intern*) Thesis: "Concept of smart avionics controller involving the integration of internet protocols, file systems, data acquisition, processing, and storage."
October 2015 – March 2017	**University of Applied Sciences Bremerhaven** (*Student - Master of Science In Embedded Systems Design*) System-on-Chip design, digital systems - VHDL, discrete control, DSP design, analog-digital instrumentation, and real-time / model-based software development.
March 2013 – Sep 2015	**IBM TOSHIBA TGCS** (*Staff Software Engineer*) OS field defect support, Linux–4690 POS machines. Field defect support and development of customer applications for POS machines.
March 2012 – March 2013	**Continental Automotive** (*Embedded Software Engineer*) Development of low-level firmware drivers/bootloaders for automotive cluster panels (GM, Chrysler, Suzuki, and Toyota).
June 2011 – March 2012	**IBM** (*Software Engineer – Contractor*) Design and development of Qt application tools for Anaconda 4th generation storage library, and support for MFC application tools for TS3500 storage library.
January 2009 – June 2011	**Texas Instruments** (*Embedded Software Engineer – Contractor*) Support and development of embedded software for handling GUI, image, and color for TI – NSPIRE Graphic Calculator.

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