

## Education



**Electronics Engineer, MS ECE, PhD in Computer Engineering**

**Communications, RF, Power Management, Wireless, Expert Witness 4G, Software Engineering, Mobile Communications**



**Tuck School of Business  
at Dartmouth**

In **December 2015**, Dr. Hernandez participated in a class for entrepreneurs in association with Google in Seattle, Washington as part of their Executive Program for Entrepreneurs.

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**Ph.D, University of Florida, Gainesville, FL, Major: Computer Engineering,**  
Research areas: Mobile Computing, Wireless Networks, Handoff Optimization, and  
Adaptable Network Protocols, Linear Prediction, Network Emulation

**Description:** Simulating Mobility was providing bogus results for a realistic environment, an emulation approach was required to test new protocols. RAMON was created to fix this situation ('330 Patent) and a Mobile protocol that adapted to speed as also invented and tested using the RAMON environment ('508 and '417 Patents)

*Dissertation: An Adaptive Networking Protocol for Rapid Mobility Environments*

Advisor: Dr. Sumi [Helal](#),

Graduation Date: August 2002

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**M.Sc., University of Florida, Gainesville, FL. Major: Electrical and Computer Engineering**  
Research areas: Computer Networks and Intelligent and Information Systems,

*Thesis: Adaptive Sampling for Network Management*

**Description:** A protocol using fuzzy logic controllers that would adapt sampling rates in a network management platform that performed better than random sampling and depending on the Hurst parameter on simulated network traffic would collect enough information from the traffic patten and would adapt sampling rate accordingly.

Advisor: Dr. Alan D. [George](#)

Graduation Date: December 1999

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**B.Sc. Costa Rica Institute of Technology, Costa Rica, Major: Electronics Engineering**  
*Thesis: Monitoring system for a packet data network, RACSAPAC*

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**Description:** A 8051-based processor connected to a RUPI an X.25 8051 controller hardware and a Windows 3.1 service using an RS-232 interface that collected data from the RUPI interface. Also a sensor that would detect incoming calls for a PBX-based system in a dial -up environment.

Advisor: Dipl-Ing. Luis P. [Mendez](#)

Graduation Date: July 1995

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Dr. Edwin Hernandez's Latest CV can be found in PDF format here:

[spiderpowa-pdf src="https://edwinhernandez.com/wp-content/uploads/2018/07/CV-EDWIN-HERNANDEZ-JUL2018-EXPERT-WITNESS-1.pdf"][CV Dr. Mondragon](#)