

# Edwin A. Hernandez-Mondragon, PhD

## Curriculum Vitae

### Technology Leader and Innovator

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## Introduction

Dr. Edwin Hernandez is a serial entrepreneur, inventor, and founder of “**EGLA CORP.**” EGLA is a tech powerhouse that create its own technology and where other innovators come to create ventures at the “**EGLAVATOR.**” The EGLAVATOR is Dr. Hernandez’ technology incubator and accelerator located in Boca Raton, FL. The EGLAVATOR assists or invests in over 12 startups including advising in funding, go to market strategies, intellectual property, and tech strategy. As part of his intellectual property expertise, Dr. Hernandez has **licensed** his wireless portfolio to *Verizon Wireless and other high-tech giants*. Dr. Hernandez is an expert in technology and venture funding with many years of experience in wireless communications, AI, cloud computing, IOT, electronic devices, and other advanced software platforms. He is a hands-on coder and creates prototypes for many of the products created at his incubator, hence is quite familiar with code reviews, hardware, and software audits. Dr. Hernandez earned a B.S. in Electronics engineering from Costa Rica Institute of Technology, and a M.S in ECE and PhD in Computer Engineering from the University of Florida. Dr. Edwin is an inventor to **14 issued US Patents** and has provided technical expert witness services in over **30+ intellectual property cases** including 6 IPRs, and one trial testimony. As part of his daily life, Dr. Hernandez works on its own projects and provides technical and startup strategy advice to several high-tech startups in the areas of AI and Machine Learning, Media Streaming, Blockchain, NFTs, AR/VR, and Health Tech. Dr. Hernandez was a **Fulbright scholar** and has been a judge for the “*Mobile World Congress*” several times. Dr. Hernandez is also a *Microsoft* and *Motorola* alumni, a member of the Industry Advisory Board (IAB) at Florida Atlantic University, and a producer of his own podcast, TECHEDTV.

## Areas of Expertise

- **Technology Innovation and Startups:** Strategy, Innovation, Bringing new ideas to practice, investments, licensing with digital growth in high-tech environments.
- **Cable TV Systems and Broadcasting:** Streaming systems, Encoding, Transcoding, OTT Platforms and Systems, React Video Apps, Mobile Streaming, ATSC 3.0, Cable TV Multicasting, DVB-C, DVB-T, and DVB-S, “Cloud to Cable TV,” Set Top Boxes, MPEG Encoding, OTA Broadcasting, Casting, DOCSIS Standards.
- **Multimedia Streaming:** OTT Platforms, TV distribution, Music & Video Platforms and automated playlist creation, real-time encoding, CDN, and cloud storage systems
- **Mobile Devices and Systems:** Applications iOS & Android, User Interfaces in mobile, mobile operating systems, Expert in mobility and wireless roaming 2G, 3G, 4G & 5G systems (3GPP specifications Technical Specifications)
- **AirInterface, LTE, 5G NR:** LTE 3GPP Specifications, Standard Essential Patents, Experience with SDRs, Open Air Interface project, reviewing code for handover, RRC Channels, KPI, and handoff parameters (X2 S1AP and XN), Test Equipment, Drive Test, and 3GPP Specifications from Release 8 to 16
- **Wearable Technologies:** Bluetooth, Low power, Board Support Packages (BSP), low-profile interfaces
- **Cloud Storage and Data Synchronization:** GlusterFS, File Systems, Dropbox/S3 integration. Cloud computing, Load balancing, AWS.
- **Wireless Communications:** 5G, 4G, 3G, LTE signaling, OFDM, Beamforming, WLAN, Software-defined

Networks, and RF emulation with a patent in wireless emulation/dissertation on this field.

- **Artificial Intelligence and Machine Learning:** Computer vision, machine learning, Fuzzy Logic, Python, Neural networks, signal processing, speech processing, use of applications for big data. Very interested in LSTM Networks, Attention Matrices, ML, statistical learning, NLP, GPT algorithms, Reinforced Learning, and other ML/AI techniques.
- **Blockchain:** Bitcoin, Litecoin, Consensus Algorithms, Gossip Protocols, ERC-20, DeFi, NFTs
- **Power Management:** Wireless Power Management Issued Patent for Microsoft Wireless Service and another Wireless Charging Patent owned by Motorola/Google with over 130+ references.
- **Personal Area Networking:** Expertise in Personal Area Networks and Wearable Systems. Issued Patent for Windows PAN Driver.
- **Smart phones and wireless embedded software development:** Personal Area Networking, Virtual Machines and Operating Systems, Bluetooth

## **Academic Background**

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

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

Advisor: Dr. Sumi Helal, August 2002

M.Sc., **University of Florida**, Gainesville, FL

Major: Electrical and Computer Engineering

*Research Areas:* Computer Networks and Intelligent and Information Systems (Artificial Intelligence). Thesis: Adaptive Sampling for Network Management

Advisor: Dr. Alan D. George, December 1999

B.Sc. **Costa Rica Institute of Technology**, Costa Rica

Major: Electronics Engineering

Thesis: Monitoring system for a packet-based data network, RACSAPAQ

Advisor: Dipl-Ing. Luis P. Mendez, July 1995

## **Industry Experience**

**EGLA CORP & EGLAVATOR, Owner & Founder (10/10 – Present)**

**Technology Innovation, Intellectual Property Experts, BlockChain, Cyber Security, NFTs, Wireless Communications, Machine Learning, NLP, Cloud ,and Streaming Platforms, E-Commerce. Creator of MEVIA and Cloud to Cable with 3 issued patents in the US and one European Patent. Dr. Hernandez assists as an Expert Witness Services for technical and damages testimony for intellectual property cases, also provides strategic advice to startups & other innovators. 30+ years of experience engineering applications for Infrastructure, Cloud-based Platforms, Telecommunications, NFT, Network Function Virtualization, Handover for 4G & 5G Systems, Software-defined Radios, IPTV, mobile, including managing and creating applications for IOS, Android, IPTV, Amazon Web Services, Wireless & Mobile Computing, Artificial Intelligence, Cloud Computing, Research & Development in general, 3D Printing, IC Design, Device Testing & Claim chart analysis. ([eglacorp.com](http://eglacorp.com))**

- **Royalties, Licensing Advise, Intellectual Property & Technology Expert Witnesses.** Advising strategic acquisitions and IP strategies for technology companies, Infringement reports, Invalidity Contentions, IPR Reports for PTAB, Damages calculations, Forensics, Code Reviews, Clean Room Analysis, assisting trials and attorneys with all Intellectual Property matters **(2014-ongoing)**
- **MEVIAOS and CloudtoCable** is a patent-pending and patented platform that merges cloud and Cable TV systems and simplifies music and video distribution to web, mobile and Cable TV. Cloud to Cable is servicing operators

like CABLE COLOR in Honduras. MEVIA<sup>1</sup> is a "Software as a Service" and a cloud-based platform that enables "MEVIA Music" currently in operation in several countries including Honduras, and United States (previously in Brazil). . ECLA supplied and maintained REST/SOAP/JSON APIs to handle more than 500K subscribers with SKY TUNES application. Our technologies powered DMX Media before its **\$16M** acquisition by Stingray Digital in 2015 [mediamplify.com](http://mediamplify.com), [cloudtocable.com](http://cloudtocable.com) and [www.eqlacomm.net](http://www.eqlacomm.net)

- **Guiltless To Go LLC**. Co-founder, AI-driven healthy ordering platform, Cloud computing, JSON and React.
- **Bridge to the Universe Labs, Inc** – Co-founder – NFT creation and marketing in SOLANA Blockchain
- Joint-Venture with Marine Network Solution on Cybersecurity, MEVIA Yachts, and other marine technologies.
- **Augmented Reality-Dry Heat** – AR & IoT control system for medical waste disposal, aka Demolizer Platform.
- **SEO TurboBooster** - Advisor
- Ownership of **CONDUCTION LABS**.
- Joint Ventures to form **Pioneers Academy** at the EGLAVATOR.
- Marine Cyber Security and Marine Network Solutions – co-owner
- Utopian Cyber – a Cybersecurity tool, CyberOps, Advisor
- SKYSHARE® – **Evolux Transportation, LLC**– Advisor
- Adam Rehabilitation, Inc – OpenCV for rehabilitation - Advisor
- MedMatch Network, Inc - Medical AI assistant for appointment settings and insurance management, acting CTO
- **ECLA CORP** owns a version of **MobileCAD** and **MobileIPP** in an 5G and LTE-based system with Software-defined Networks (Patented technologies) and in use with CBRS and a simulated EPC in a virtualized environment, built in 2019. In the past RAPID MOBILE TECHNOLOGIES, INC was used for these products.
- Member of **Licensing Executives Society (LES International) (2018-2021)**, Expertise in licensing intellectual property rights and monetization of patents and software.

#### **EGLAVATOR, Technology Incubator & Office Spaces, Boca Raton, FL. (3/2017 – Present)**

**Experience:** Founder and owner of a Boca Raton-based technology incubator and accelerator with many startups in Cloud, NFT, Blockchain Incubator, 4G/LTE, 5G Systems, Prototyping and development of mechanical, electrical, and software products ([www.eqlavator.com](http://www.eqlavator.com)) 3D Design & Assisting Startups for funding and technology direction. Assisted Startups Projects:

- **PointsKash, LLC** – Points rewards to Blockchain with Algorand as a coin, one of 1<sup>st</sup> investors
- **SEO TurboBooster and Pre-Dating** – Assisting strategy – partnerships
- **Conductions Labs, Inc** – Bluetooth and Directed audio Business development and strategy
- **MEVIA Operating Systems & Mevia Studios, Inc** : Streaming platform and web widget technology, NFT Museum and Gallery.
- **CBS Biomedical** in Partnership with ECLA CORP – engineering and development of a new version of a DEMOLIZER in 2018 – 2019 (Shareholder of CBS Biomedical, Inc)
- **HydraFlush, Inc**, redesign of mechanical transmission and parts for double-sided toothbrush in 2018
- **Bridge 2 Universe Labs**, NFTs and Blockchain, creation generation of NFTs, Marketing of NFTs,
- **Guiltless To Go**, ordering Platform for healthy food, Foodverse NFT for Memberships
- **ECLA NFT Platform** – Memberships, Loyalties, and **AI-created NFTs with Machine Learning**
- **SAFEFI** – Safety-based with GPS location and tracking using a Bluetooth button and SAFEFI Zones (Patented Technology, licensed to ECLA CORP, Investor to STADSON Inc 2015-2017)
- Assisted **Cirrus Core Networks** with their NFV system and implementation of an LTE network with CBRS in 2016
- Several other ventures in e-Commerce, Education, and blockchain technologies.

#### **MEVIA STUDIOS & TECHEDTV – Host & Broadcasting, Boca Raton, FL (3/2018 to Present).**

**Experience:** TECHEDTV is on Spotify, Amazon Music, Apple Podcast, and other sites. As part of EGLAVATOR's TV, Media studio. I host and produce TV shows in technology and business: ASK ALICE, TECHEDTV, and others with dozens of shows & podcasts, covering Mobile World Congress 2019 & 2020, HIMMS 2019, Consumer Electronics Show and many others.

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<sup>1</sup> Previously marketed under MEDIAMPLIFY®

**MOBILITY WORKX, LLC. Principal, Boca Raton, FL (7/2016 to present)**

**Experience:** Patent commercialization of MobileCAD (Patent 7,231,330) a mobile emulation environment for **3G, UMTS, 4G LTE, & 5G** networks, mobility, PCRF, Diameter routing, RRC Signaling, propagation models simulation, virtual drive testing and RF scenarios and Mobile IPP (US Patent 7,697,508 and US Patent 8,213,417) for seamless mobility LTE, Self-Organizing Networks, S1 Handover, X2 handover, Xn Handover, etc. **Licensed Portfolio by Verizon Wireless and other large mobile players**

- Handover patents for X2, S1 in LTE Rel9-14 and XN and N2 Handover for 5G NR Rel15-ongoing standards
- Network and Wireless Emulation for LTE and 5G NR, and other IP-based RF environments.

**Motorola Inc, Principal Staff Software Engineer, Mobile Devices, Plantation, FL (11/2007-5/2010)**

**Experience:** Google Android Platform/Application Development, Kernel-level prototyping, Data support, implemented HTTP Push/MMS, DRM content management, Webkit and Opera- based browsers, Lead discussions with customer Sprint/Nextel and Nextel International. I defined Android architecture and the concept of iDEN+5, which seeded Android in Plantation. Assisted in licensing negotiations for Motorola as part of the licensing team.

**Motorola, Inc Sr. Software Staff Engineer, Mobile Devices, Plantation, FL (11/2003 -10/2007)**

**Experience:** Feature lead for Java Virtual Machine for Dual-mode devices, J2ME Expert, JSR implementation on BREW architectures, and iDEN/CDMA software interactions. As a feature lead, program management interactions, customer interactions, and 3rd party vendor relationships including licensing (ie Qualcomm). Platform design and development for Windows CE devices and Microsoft Smartphone Platforms, i930 mobile phone.

**Microsoft, Technical Program Manager, Windows Networking, Redmond, WA (8/2002 - 9/2003)**

**Experience:** Feature lead for Bluetooth Personal Area Networking. Responsibilities driving Architecture, Design, Test Automation, security analysis for PAN, and drive testing over networking protocols such as IPv4 and IPv6 networks.

**Microsoft, Program Manager Intern, Windows Networking, Redmond, WA (5/2001-8/2001)**

**Experience:** Wireless Zero-Configuration (WZC) for Windows XP Service Pack, Power Management algorithm using self-similar traffic modeling, and adaptive adjustment of the duty cycle. IEEE 802.11b/g/a services could be optimized to reduce power consumption from 0 to 80% depending upon network traffic characterization.

**COMPUNET, Entrepreneur/Lead Engineer, Honduras (4/1997-11/2009)**

**Experience:** Owner and founder. Cisco/Linux administrator, Webmaster and senior system engineer and owner. Lead developer for: authentication services, security, web, and networking configuration.

## **Leadership Positions, Honors and Awards**

- South Florida Tech Nomination – EGLAVATOR 2023
- Global Business Awards – Rhode Island
- Presented projects at MIAMI NFT Week, TECH PALOOZA, CRYPTO CONNECT, and other conferences in South Florida.
- EGLA CORP has been named as TOP 100 startups in South Florida
- Mentor for the FAU Business Plan Competition, 2021 – My team was finalist at FAU TechRunway, Assisted Computer Vision for Elderly, 2021.
- Judge for the **Mobile World Congress** in Barcelona, Spain, 2019
- Judge for the **Mobile World Congress** for Best Networking Software Breakthrough in Barcelona, Spain, .2020.
- Judge for Startup POP, Startups in Boca Raton, FL.
- Founding member of **Honduras Global** dedicated to Entrepreneurship, Science & Technology
- **Fulbright-Scholar:** 1997-1999 – US State Department Program.
- 2018 Innovation Awards, City of Coral Springs, FL
- Nov 2018 - 3<sup>rd</sup> Place Hackathon with “*Eye of the Storm*” at Office Depot, Boca Raton, FL
- Top projects in Emerge Americas 2018 Hackathon with Video Anemometer, Miami, FL
- Fifth Place in Bitcoin Hackathon 2018 with Bitcoin Caster, Miami, FL

[https://github.com/win2013/bitcoin\\_alex](https://github.com/win2013/bitcoin_alex)

- Winner of Kinect/Gesture-controlled Hackathon in Boca Raton, FL <https://github.com/win2013/airthenticate>
- Finalist and presenting EGLA COMMUNICATIONS at Florida Venture Forum in Coral Gables, FL 2015
- Finalist at “Emerge America’s” Conference with Mediamply/MEVIA in **2014**, Miami Convention Center
- Finalist with Mediamply “Music Sparks” in LAB Miami, FL in 2015.
- Mention of honor in the Honduran National Science Contest, May 1997.
- Ranked 1st in undergraduate studies, Costa Rica Institute of Technology, July 1995.
- Four consecutive academic scholarships undergraduate work at Costa Rica Institute of Technology (ITCR), 1991-1995.
- Winner Business Plan Competition in **University of Florida** 2002 and Runner-up in 2001
- *High-Performance Computing and Simulation Lab* student award, spring 1999.
- In March 2001, as a co-founder of E-melodies, runner-up during the *2001 UF Business Plan Competition* at the University of Florida and winner of the *2002 UF Business Plan Competition in Information Technology*

## **Software Code Reviews**

- C/C++ sources from several vendors in 802.11, LTE, 3G systems, Bluetooth, BSP Systems, Augmented Reality, Wearable
- FPGA, Beamforming source code, E-Commerce Platforms (PHP, Gradel, Javascript, Servlets, others)
- Bash, Docker, PHP, Javascript, Typescript platforms
- PowerShell and others for a Windows platform including Cisco Routers, VMWare, and networking designs
- Code Reviews & Clean Room Environments

## **Publications**

- J. Zablah, E. Hernandez, et.al “Enhance Honduras Development with Technology Transfer of High-Performance Computing,” World Development Journal, Jan 2016.
- E. Hernandez, "War of Mobile Browsers," IEEE Pervasive Computing, vol. 8, no. 1, pp. 82-85, Jan.-Mar. 2009
- E. Hernandez, A. Ayyagari, “Heavily-tailed Network Traffic Modeling for Power Management”, IEEE Workshop on Performance and Management of Wireless and Mobile Networks Australia, November 2005
- E. Hernandez, M. Chideste, and A. George, "Adaptive sampling for network management," Journal of Networks and System Management (JNSM), Vol. 9, No. 4, Dec 2001.
- E. Hernandez, A. Helal, “Predictive Mobile IP for Rapid Mobility,” IEEE Conf. Wireless Local Networks 2004, Tampa, FL
- E. Hernandez, A. Helal “RAMON: An emulation approach,” IEEE Conf. Local Computer Networks 2002, Tampa, FL
- E. Hernandez, A. Helal, "Examining Mobile-IP Performance in Rapidly Mobile Environments: The Case of a Commuter Train," IEEE Conf. Local Computer Networks 2001, Tampa, FL, Nov 14-16, 2001.
- A. Helal, S. Shah, E. Hernandez, “Mobility Benchmarking In Ad-Hoc Networks,” The IPSJ Journal, Vol.43, No.11, June 2002. Approx. 15 pp.
- S. Shah, E. Hernandez, A. Helal, “CAD-HOC: A CAD Like Tool For Generating Mobility Benchmarks In Ad-Hoc Networks,” SAINT 2002, Japan, January 2002

## **Thesis and Dissertation**

- E. Hernandez “*An adaptive protocol for rapid mobile environments*,” Ph.D Dissertation, University of Florida, August 2002
- E. Hernandez. "*Adaptive sampling for network management*," M.Sc. Thesis, University of Florida, Dec 1999
- E. Hernandez, Y. Lee. "*Monitoring system of a packet data network*," B.Sc. Thesis. ITCR, report, July 1995

## **Books**

- Viva5G for Executives and Entrepreneurs – Q4, 2023
- Viva5G for Engineers and Scientists - Q4, 2023

## **Technical Reports and Prior to publications**

- E. Hernandez “MEVIA COIN – White Paper “ – November 2021
- E. Hernandez “Mediamplify: A Multimedia Platform for MPEG TV Systems, ” Dec 2015
- E. Hernandez, A. Helal, "RAMON: A network emulation environment," CISE Department, University of Florida, 2005
- E. Hernandez, A. Helal, “Ghost Mobile IP,” CISE Department, University of Florida, 2005.
- E. Hernandez, “DMTF: Authentication for Mobile Phones,” Motorola, defensive Publication, 2004

## **Patents and Innovations (14 Issued, 5 Patent Pending)**

- E. Hernandez, A. Ayyagari, et al. “Method and system for managing power consumption of a network interface module in a wireless computing device,” Microsoft Corporation. **Issued US Pat. 7,564,810**
- E. Hernandez, A. Helal, RAMON, “Rapid Mobility Network Emulator Method and System,” University of Florida. **Issued US Pat. 7,231,330**
- E. Hernandez, A. Helal, “System, Apparatus, and Method for Proactive Allocation of Wireless Communication Resources,” University of Florida, **Issued US Pat. 7,697,508 and US Pat. 8,213,417**
- S. Poursabastian, E. Hernandez, et al, “Bluetooth PAN Driver,” Microsoft Corporation, **Issued US Pat. 7,269,388**
- Krantz, E. Hernandez, et al “Rules-based Network Selection Across Multiple Media,” Microsoft Corporation, **Issued US Pat 8,788,715, and 7,996,505**
- V. Bhanu, E. Hernandez, et al, “Smart Scan for Bluetooth PAN Services, “Microsoft Corporation,” **Issued US Pat. 8,024,487**
- E. Hernandez, K. Ardizzone. "Thumb-based User Interface for Camera Phones," Motorola, Inc, submitted 2005
- E. Hernandez, et al. “Java-based Push to Talk, ” **Issued Pat 8,707,337**
- E. Hernandez, "Secure USB Drive," Motorola, Inc, submitted 2005
- E. Hernandez, J. Tracy "Magnetic Connector", Motorola, Inc, **Issued US Pat: 7,331,793 with over 140 references.**
- E. Hernandez,– Issued US Pat: **10,123,074, 10,524,002, 11,140,441** Continuation in Preparation, and European Patent Office (PCT No. 16/729,986 and 15874332.8) and European Patent **EP3238457**
- E. Hernandez – Anemometer with Augmented Reality – April 2018 – Patent Application Filed and discontinued
- E. Hernandez - SYSTEMS AND METHODS FOR IMPROVED BIOHAZARD WASTE DESTRUCTION SELECTION – Filed – US Patent **11,441,773** and continuation
- E. Hernandez – Decentralized Operating System and MEVIA OS – The MEVIAVERSE Platform in the works.
- E. Hernandez – AI/ML Reservation system for healthy food ordering.
- E. Hernandez – Portal to the METAVERSE - Application filed
- E. Hernandez – Web3 and NFT Authentication system for IRL and Virtual Worlds
- E. Hernandez – NFT Phone Number – Universal Calls – in progress

## **Broadcasting, Blogs & Podcasts**

- FM Radio & Podcast – **Ask Alice Show** – May - August 2018
- Founder of TECHEDTV, EXPERT WITNESS TV – Host . <http://teched.tv> - 2019 to present in Apple iTunes, TuneIn, Spotify, Amazon Music, Google Android, and other podcast sites.
- Technical articles at [medium.com/@edwinhm](https://medium.com/@edwinhm) and [edwinhernandez.com](https://edwinhernandez.com)

## **Software & Engineering Skills**

**Operating Systems Experience:** Linux Operating Systems (*Expert Level*), Windows Platforms, AWS, Google Cloud, Microsoft Azure

**Cloud Computing:** AWS, Google Cloud, Azure, VmWare & XenServer, Docker Containers & Kubernetes. Cloud storage and platform development of multimedia delivery systems.

**Marker Space & Electronics:** 3D Printing, Sketching, Design, CAD/CAM, Circuit boards, logic boards, electronic components and RF engineering.

**Block Chain Technologies:** ERC-20, Solidity, Solana, Bitcoin, Ethereum, Binance, DEFI tokens, consensus algorithms, miners, NFT or Non-Fungible Tokens

**Mobile Programming:** iOS and Android. Android OS including Smart TV, IOS Development for iPad/iPhone/TV, Embedded Development with Raspberry PI. Legacy systems: Windows CE, J2ME, Blackberry RIM SDK, Motorola SDKs, Samsung SDK BREW, Qualcomm AMSS/DMSS.

**Software Development languages:** React, React-Native, Python (Django), PHP, Javascript (jQuery, NodeJS, AngularJS), Objective-C, Swift, Java, Java/Android, GNU C/C++, C#, VB.NET, Platform Builder, Java Micro-Edition, J2SE, and MySQL.

**Machine Learning:** Generative AI models, LSTM, Deep Learning, Scikit, OpenCV, Python and Text-to-Speech Technologies, Statistical model used in data science.

**Multimedia Systems:** Cable TV, DVB-C, DVB-S, IP Multicasting, Streaming Platforms, Encoding, Transcoding, Metadata, MPEG TS, Cable & Satellite Systems.

**Wireless Protocols:** GPRS, UMTS, 4G LTE Handoff, 5G XN, and NFV Platforms. Beamforming, Power Management, RRC Messaging, Femtocells, small cells, QXDM logs. Experience with Wearables, Bluetooth LE, BNEP, and many PAN systems. Wide experience with GSM, GPRS, and other legacy wireless standards such as CDMA 2000, iDEN, and others. Extensive experience with mobility protocols in UMTS, LTE, GSM, Mobile IP, MIH and research projects such as Cellular IP, HAWAII, AODV, and other systems. Expert level on WIFI, WPA-3, and IEEE 802.11 standards.

**Software Defined Radios and Networks:** GNU Radio, Propagation, RF and Software-based Emulation, Wireless Emulation, Fading, Modulation, & others

**Internet Networking:** In-depth knowledge of IPv4 and IPv6 protocols, IP tunnels, TCP/IP, Web Sockets. NDIS driver design in Windows platforms, PCAP, Experience managing and securing Cisco IOS routers networks & firewalls and SNMP management. Fiber optics, IP Tunnels, VPN, Switching, Redundancy.

**3D Printing:** Fusion360, 3D Slicing techniques

**UI/UX:** Figma Prototyping

**Process Management:** Github, JIRA, TFS & SCRUM

**Data Center:** Power Management, A/C, Electrical Distribution, Networking.

**Scientific and Engineering Tools:** MATLAB, pSPICE, OrCAD, Network Simulator (ns-2 and ns-3), wide experience in electronic circuit design, digital design, and low-level debugging tools, including PC-104 and circuit design.

**Legacy Programming Languages:** VHDL, LISP, PROLOG, FOXPRO, Pascal, Embedded design, Intel assembly code (i8051, x86), and TCL/TK.



## **Technology Licensing**

- The US patents Nos. 7231330, 7697508, and 8213417 are licensed by a major internet and wireless communications companies and are in use to manufacture millions of cellular devices and telecom carriers including **Verizon Wireless** as a licensee.
- US Patents 10,123,074, 11,440,441, and 10,524,002 (**CloudtoCable** Patent Portfolio) campaign started for licensing
- US Patent 11,441,773 (Augmented Reality) started licensing campaign.
- Assisting several startups with technology licensing needs

## **Entrepreneurship & Ventures**

**EGLA CORP dba EGLA COMMUNICATIONS:** Corporation behind the EGLAVATOR and other startups: Mediampify & MEVIA Platform (Cloud to Cable TV), Expert Witness Consulting & Services, Software/Cloud hosting, Multimedia Delivery Services, EGLA.ai - Artificial Intelligence, Demolizer, and other platforms.. For additional, information: [www.eglacomm.com](http://www.eglacomm.com) | [www.eglacorp.com](http://www.eglacorp.com)

- **EGLAVATOR:** Technology incubator in Boca Raton, FL [www.eglavator.com](http://www.eglavator.com)
- **Mobility Workx, LLC:** Principal, 3G/4G Emulation and Mobile Independent Handoffs under patents US7231330, US8213417 and US7697508 also known as MobileCAD and MobileIPP. [www.mobilityworkx.co](http://www.mobilityworkx.co)
- **UBIWIRELESS, LLC dba EDWIN HERNANDEZ, LLC:** Founder & owner. This company dedicated to IP Monetization, previous projects include RxProfile™ (<http://rxprofile.net>), FUTMOB, and Ad2Fone, among others (Mobile Applications). Licensing entity of EDWIN HERNANDEZ.
- **EGLA Ownership:** Guiltless To Go, Shibzoids NFT, Turbo Booster, Pointskash, Marine Cyber, and others.

**COMPUNET S. de R. L.** Founder and CTO, Honduras Pioneer Internet Service Provider founded in 1997 completed operations in November 2009, one of the first ISPs in Honduras.

## **Personal Information**

- **Hobbies:** Guitar playing, running, soccer, volunteering for charities, option and derivatives trading.
- **Citizenship:** Honduran and US Citizen
- **Religion:** Catholic - Salesian Alumni – Instituto Salesiano San Miguel

## **Services and Memberships**

- Mentor for hackathons and internships at the **EGLAVATOR**
- Member of **Industry Advisory Board** for Florida Atlantic University, Electrical and Computer Engineering Department, 2017-present
- Presenter as Technology Showcase and member of South Florida TECH 2020-2022
- **GSMA – 2019 & 2020 Mobile World Congress, Judge**, Barcelona, Spain
- Emerge Broward and Leadership Broward Member 2014-2016
- Organizing Committee, Mobile Mondays Miami, 2009-2013
- Organizer “Startup Weekend Boca,” October 2013
- Hispanic Graduate Student Association, Finance chair, 2001-2002
- Hurricane Mitch Volunteer, Gainesville, FL. October 1998
- IEEE member (current)
- Tae Kwon Do, black belt
- St. Andrew’s Catholic church, Life Teen, Coral Springs, FL, 2004-2005



- Member of Lovebags.org, 2007-2009
- Member of Society of Hispanic Professional Engineers, 2009-2010

## **Technical Program Committees/Reviewer for International Conferences**

- 2023 IEEE-ICM – International Conference on Mechatronics
- 2023 IEEE-MCET 23 – 4<sup>th</sup> Multidisciplinary Conference on Engineering Technology
- 2023 IACT - 7<sup>th</sup> Arab ICT Conference
- 2023 IEEE GLOBECOM, Global Communications Conference
- 2023 IEEE CSNT Conference
- 2022 IEEE 11th International Conference on Communication Systems and Network Technologies 2022 IEEE CSNT Conference
- 2021 IEEE TELKOMNIKA (reviewer)
- 2021 – IEEE International Seminar on Machine Learning Optimization and Data Science, ISMODE (Reviewer)
- 2021 CICN - IEEE International Conference on Computational Intelligence and Communication Networks (Technical Program Committee)
- 2021 3<sup>rd</sup> ICERA – IEEE International Conference on Electronics Representation and Algorithms (Reviewer)
- IJ-ICT 2021 – IEEE International Journal of Information and Communication Technology (Reviewer)
- IJECS 2021 and 2022 – IEEE Indonesian Journal of Electrical Engineering and Computer Science (Reviewer)
- IJRES – IEEE International Journal Research Education and Science 2021 and 2022 (**Associate Editor**)
- IEEE The International Conference on Communication Systems and Network Technologies (CSNT2021)
- ICCAIST 2021: IEEE 4th International Conference on Computer Applications & Information Security, Saudi Arabia.
- 2020 IEEE TELKOMINKA, Telecommunication, Computing, Electronics and Control
- Editorial Board of **Indonesian Journal of Electrical and Computer Engineering** 2021
- 2020 CICN - International Conference on Computational Intelligence and Communication Networks
- 2020 BDAW - Big Data and Advanced Wireless Technologies,
- 2019 International Symposium on Electrical and Electronics Engineering, ISEE2019.
- 2019 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE2019)
- 2019 1st International Conference on Cybernetics and Intelligent System (ICORIS) 2019.
- 2019 IEEE Game Entertainment and Media – Ireland
- **Editorial Board Member and Reviewer**, Journal for Networks and Systems Management, from 2004-present
- 2018 Journal of Simulation: Transactions of the Society for Modeling and Simulation International
- 2018 International Conference on Information and Communications Technology (ICOIACT)
- 2017 2nd International conferences on Information Technology, Information Systems and Electrical Engineering (ICITEE)
- 2016 Global Summit on Computer and Information Technology
- 2016 International Conference on Information Technology, Information Systems, and Electrical Engineering
- 2016 Recent Advances in Communications and Networking Technology
- WCI 2015 – Women in Computing and Informatics
- 2012 (2012 IEEE Symposium on Wireless Technology & Applications).
- IEEE International Consumer Networks, 2011
- IEEE Broadnets - 2008
- IEEE Wireless Networks Magazine, 2002-2003
- IEEE Transactions on Mobile Computing 2007
- IEEE Wireless Local Networks 2005-2007
- IEEE Local Computer Networks 2007-2008
- IEEE GLOBECOM 2005

- IEEE SOUTHEAST CONFERENCE 2005
- IEEE Conferences in 2014-2015
- 2004-2009 - Panelist at 4G Wireless (Miami Beach, FL), several “Mobile Monday” events, and Mobile Commerce Latin America (2009).

## **Tutorials**

- Electrical and Computer Engineering Technology Faculty, Rochester Institute of Technology (RIT), Tutorial on LTE Emulation & Signaling for Handover, September 2020
- WEBCONF Latino 2010, Tegucigalpa, Honduras.
- Mobile Computing Platforms, Tegucigalpa, Honduras.
- IEEE SOUTHEAST CONF 2005. “Windows Cryptographic API,” A Session Keys Paradigm.
- *Keynote speaker* at "First Tuesday" Tegucigalpa, Honduras, and San Salvador, El Salvador

## **Training**

- **Tucks Schools of Business – Dartmouth University**, Digital Strategies for Entrepreneurs, Google Campus, Seattle, WA, and December 2016.
- **Management Skills and Business Strategies**, FAU Campus, Boca Raton, FL, January 2014

## **Languages**

Fluent in Spanish and English. Basic knowledge of German and French

## **Teaching Experience**

**Teaching Assistant for Mobile Computing, University of Florida**, (Spring - Fall 2001)

**Experience:** Mobile Computing is level-6000 graduate class. The class involves the discussion of research papers and a practical section where different wireless technologies are covered. In addition to my job duties, an automated examination tool was developed as an additional class aid for grading. The class required J2ME/JSEE knowledge and the ability to support the class with Motorola smart phone development, plus all additional aid required to run the killer application competition sponsored by Motorola.

**Teaching Assistant for Software Engineering, University of Florida** (Fall 2000)

**Experience:** The class was targeted to computer engineering seniors as an introduction to the software development cycle. Students carry-on a web-based project and deliver specific documents and specifications (architectural, design, UI), develop a prototype, schedule different tasks, and manage the project to be delivered on time. The TA assists technically and supervises their work, grades quizzes and exams.

**Teaching Assistant for Introduction to CIS/Java, University of Florida** (Summer 2000)

**Experience:** I taught an introductory lab session, graded quizzes, exams, and assignments. As an assistant I held different tutorial sessions on object-oriented concepts and problem-solving skills.

**Teaching Assistant for C++, University of Florida** (Spring 2000)

**Experience:** Grading and preparing assignments for the class.

**Instructor at the Central American Internetworking Conference, (9/1998)**

**Experience:** During the conference, I taught a 3-day intensive hands-on class on network security. I covered topics from: network intrusion detection, privacy, and authentication mechanisms

**Instructor, Central American Telecommunication Videoconferencing** (Summer 1996)

**Experience:** Teaching Linux (Operating Systems), C++, and Networking seminars to engineers all over Central America (Remote teaching)

**Central American Telecommunication Commission**, Engineer, Honduras, (8/1995 – 5/1997)

**Experience:** Network Engineer, Videoconference systems (VTEL and H.323), software development for telecommunications and traffic management

**United Nations Development Program (UNDP)**, IT Consultant, Honduras, (11/1996 – 5/1997)

**Experience:** Network security and consultant for the United Nations program in Honduras. Software auditing and network configuration

## **Research Experience**

**Research Assistant**, University of Florida, Gainesville, FL (1/2000 – 8/2002)

**Experience:** I investigated the effects of handoff and network mobility at different vehicular speeds. I used Mobile network simulation and emulation were important tools to study Mobile-IP and Layer-2/3 mobility protocols. I developed RAMON, Rapid Mobile Network Emulator, a device that emulates network layer mobility and programmatically replicates mobility conditions varying from signal strength, packet delay, BER, and speeds. RAMON uses real 802.11b Access Points, Omni-directional antennas, embedded computers (e.g. PC-104) and custom-build control circuitry. RAMON also used a .NET interface to automatically create network topologies to be emulated. In depth routing protocols explored, IP tunnels, and low-level network device driver adjustments. I conducted extensive simulation work on ns-2.

**Research Assistant**, University of Florida, Gainesville, FL (9/1997 – 12/1999)

**Experience:** I joined the High-performance Computing and Simulation Research Lab. During my thesis work, I applied Fuzzy Logic in Network Management, focusing on how adaptive sampling could reduce captured statistics without losing important network behavior. Additionally, I researched ATM networks, SNMP (Simple Network Management Protocol), Virtual Interface Architecture (VIA) over Myrinet, CORBA, and High-performance Cluster Computing topics.

**Program Manager Intern**, Microsoft Corporation, Redmond, WA (5/2001 – 9/2001)

**Experience:** As an intern, I investigated self-similarity and power management algorithms for Wireless Networks. I modeled the method how service time per packet could be estimated and used for QoS in ad-hoc and infrastructure networks.

**Network Engineer**, Radiografica Costarricense, R&D, Costa Rica. (Jan - Jul'95)

**Experience:** I developed a microcontroller-based (x8051 and RUPI-51 micro-controllers) system to measure X.25 and PBX data traffic, Windows-based GUI, and X.25 frame captures

## **Consulting Experience and Expert Witness Experience**

- **KOM, Inc vs. Netapp** – Expert Witness for KOM, Code Reviews, Expert Reports  
Attorney Firm: Dinovo & Price  
**Case:** Patent Case – Storage Computing & Compliance  
Ongoing
- **BMG Music vs. Altice Inc.** – Expert Witness for BMG Music  
Attorney Firm: StepToe  
**Case:** Copyright infringement – Technology Negligence  
Ongoing

- Cisco Systems vs. **Corrigent Networks** – IPR2023-00169 – Assisting Corrigent Networks  
**Attorney Firm:** Step Toe  
**Case:** IPR – Networking and Switching technologies  
Ongoing.
- **Mojo Mobility** v. Samsung, USDC Eastern District of Texas  
**Case:** Patent Infringement – Wireless Charging Technologies and Protocols.  
**Attorney Firm:** McKool Smith  
Ongoing
- Virtela Technology Services v. **Andrew Funk**, USDC District of Colorado,  
Expert Witness for Andrew Funk.  
**Attorney Firm:** Dorsey Law  
**Case:** Trade Secret Theft – Cloud Computing  
Case Settled 2016.
- Del Castillo v. **Bank of America**, USDC Southern District Florida  
Expert Witness for Bank of America  
**Attorney Firm:** Liebler Gonzalez & Portuondo PA  
**Case:** Online Reputation and Web search  
Case settled 2017
- **BNR Mobile** v. several defendants (HMD, others), USDC Eastern District of Texas  
**Case:** Patent Infringement  
**Attorney Firm:** Devlin Law  
Ongoing
- **BNR (Mobile / Wireless Patents)** v. Several Defendants (NOKIA, BLU, Samsung, TCL) – International Trade Commission Case No. 337-TA-3568  
**Case:** Patent Infringement, Mobile Devices, Code Review, Evidence of Use, Certain Electronic Devices Having Wireless Communication Capabilities and Components, Mobility Patents, WIFI  
**Attorney Firm:** Devlin Law  
Case settled.
- LG Electronics v. **BNR** – Expert Witness for BNR - IPR2020-00108 for U.S. Patent No. 8,416,862  
(Terminated, Settlement)
- SAMSUNG v. **BNR** – Expert Witness for BNR - IPR2020-00611 (**Denied**) and IPR2020-00613 (**Not Instituted**)  
for U.S. Patent No. 8,416,862  
Case settled
- **Charles Smith Enterprises, LLC** v. Catapult Sports Inc, USDC District of Delaware,  
**Case:** Patent Infringement (Claim Construction Matters)  
**Attorney Firm:** Devlin Law  
Ongoing – ReExam
- **Honduran Government**, “National Institute of Properties,” Multi-million-dollar platform transferred from the World Bank to the Honduran Government - Code Review for Java, .NET, and Cybersecurity in **2017-2018**
- Auditing of Honduran Elections, Forensics and fraud detection and analysis (Pro-Bono) in 2018  
Auditing of Honduran Elections, Forensics and fraud detection and analysis (Pro-Bono) in 2021

- **Intellectual Ventures v. Toyota Motor Corporation, GM, Volvo, others, USDC Eastern District of Texas**  
(Settled)  
**Case:** Patent Infringement  
**Attorney Firm:** Kasowitz Benson Torres LLP  
All matters Settled.
- **Key West Golf Club v. Cable Provider – Cable TV distribution technologies –**  
Preliminary study – Key West, FL, 2019
- **L2MT v. Google and other defendants , USDC Northern District of California,**  
**Case: Patent Infringement for 3G Protocols, Claim Construction Assistance**  
**Attorney Firm:** Fitch Even Tabin & Flannery LLP  
Case dismissed for Google in 2022
- **Mobile Manufacturer v. Carrier, USDC Eastern District of Texas,**  
Expert Witness for Mobile Manufacturer  
**Case:** Patent Litigation – Wireless Protocols, Tunnels, and Signals.  
**Attorney Firm:** Fish and Richardson  
Case settled 2017
- **DISH Network LLC v. Multimedia Content Management LLC, IPR2019-01014 and IPR2019-01015,**  
Expert Witness for Multimedia Content Management, LLC, 2019  
**Case:** Patent Trial and Appeals Board  
**Attorney Firm:** Toler Law Group, PC  
IPR Not instituted in both cases.
- **Bandspeed v. RealTek Semiconductor Corporation, USDC Western District of Texas,**  
**Case:** Non-Infringement, Invalidity, Code Reviews, etc.  
**Attorney Firm:** Orrick Law  
Ongoing
- **Seven Networks v. Google– USDC Eastern District of Texas**  
Expert Witness for Seven Networks  
**Case:** Patent Litigation  
**Attorney firm:** Thompson and Knight LLP  
Case settled 2017
- **TOT Power Control, SL v. T-Mobile, USDC Eastern District of Texas**  
**TOT Power Control, SL v. Handset Manufacturers, Massachusetts.**  
Code Review, Infringement, Validity  
**Case:** Patent Infringement  
**Attorney Firm:** DiNovo and Price  
Ongoing
- **TCL - assistance & consulting for several patents and IP cases - Taiwan**
- **Stone v. AT&T, Vehicle, USDC Southern District of California**  
**Case:** TCPA Matter – Expert Witness for AT&T, MMS Messaging  
**Attorney Firm:** Hill, Kertscher and Wharton, LLP  
Case settled in 2019 (Deposed, Settled)
- **Barkan v. Sprint, USDC Eastern District of Texas,**  
**Attorney Firm:** Susman Godfrey, LLP  
**Case:** Technical Expert Reports, Code Reviews, 4G, PicoCells, Tunnels, Invalidity and Infringement Reports,  
Deposed (Case Settled)

- **Bell Northern Research, LLC v. LG Electronics, Inc., et al**, USDC Southern District of California  
**Attorney Firm:** Skiermont Derby LLP  
**Case:** Patent Infringement & Validity Federal Case. Code Review, Expert Witness Declaration and IPRs (3) – Beamforming and Wireless Technologies  
Settled, Terminated Institution
- **Bell Northern Research, LLC v. Samsung et al**, USDC Eastern District of Texas.  
**Attorney Firm:** Skiermont Derby, LLP  
**Case:** Infringement & Validity Federal Court, IPRs (3), California, Code Reviews Assisting infringements reports & damages models, Technical Expert Reports  
Case Settled, 2 IPRs not instituted
- **Blue Radios v. Kopin, Inc**, USDC, District of Colorado  
**Blue Radios v. HSBP**, Massachusetts District Court,  
Expert Witness for Blue Radios –  
**Attorney Firm:** Sheridan Ross, Jeffer Mangels Butler & Mitchell LLP, and others  
**Case:** Patent Litigation, Code Review, Trade Secret Theft Matter in Wearables, Bluetooth, User Interfaces, Supplemental Report, Head Mounted Displays, Military Technologies (ITAR)  
Ongoing (**Deposed 2-times, Trial scheduled for January 2024**)
- **Contour Data Solutions v. Gridforce, CDW**, USDC Eastern District of Pennsylvania,  
**Case** Technical Expert Reports (Data Center, Cloud and Virtual Machines, Trade Secrets)  
**Attorney Firm:** Vedder Price  
Deposed and Expert Report Files  
Ongoing
- **Workspot v. Citrix** – PTAB, IPR2019-01002 – Declaration for CITRIX  
**Case:** Patent Trial and Appeals Board  
**Attorney Firm:** DLA Piper  
(**Deposed, instituted but all claims held patentable** - PTAB judges agreed with my analysis.)
- **Express Mobile v. DreamHost, LLC** – Expert Witness – USDC District Court of Delaware – 2019  
**Case:** Patent Infringement – eCommerce Platforms, Javascript,  
**Attorney Firm:** Devlin Law  
Expert Reports – Case settled.
- **XCommerce v. Express Mobile, Express Mobile v. BigCommerce**, USDC Eastern District of Texas and USDC Northern District of California  
**Case:** Patent Infringement – Virtual Machines, e-Commerce Platforms, PHP/JavaScript  
**Attorney Firm:** Devlin Law  
Expert Witness for Express Mobile. Review code for client, claim charts, code reviews, invalidity defenses, Deposed, Trial Scheduled and Pending
- **Flexiworld v. Amazon, others**, USDC Western District of Texas, Technical Expert Reports (Streaming Technologies) (**Withdrawn**)
- **Gravel Inc v. T-Mobile, Bazaar Technologies, Target and other defendants**, USDC Eastern District of Texas  
**Case:** Patent Infringement, Code Reviews, 101 issues, claim construction. Expert Reports  
**Attorney Firm:** Devlin Law  
Some cases settled, except with **Bazaar Voice Inc & others still ongoing**  
Reports, Code Reviews e-Commerce Platform, Code Reviews. Server Gradle PHP, Java server
- **Kaiffi v. T-Mobile, Verizon**, USDC Eastern District of Texas,  
**Technical Expert Reports** (Streaming and wireless)  
(**Withdrawn by Client**)

- Mediatek, et. al v. **Nippon Telegraph, Nippon Telegraph** v. Media Tek, USDC Eastern District of Texas - IPR2020-01607, Declaration and Reports, IPR and USDC  
**Attorney Firm:** Dickinson & Wright  
**Case:** Wireless Modulation, RF, OFDM, other wireless comm issues, Deposed IPR, Validity and Infringement, VHDL Code Reviews – Case Settled
- **Mobility Workx** v. T-Mobile  
**Case:** Patent Litigation – Wireless Handover 4G Protocols and Simulation  
**Attorney Firm:** Machat Law and Others  
(Deposed, Expert Declaration)  
Case settled 2017
- **Mobility Workx** v. CellCo Partnersio (Verizon Wireless,) USDC Eastern District Texas  
**Damages** Expert Witness for Mobility Workx, LLC - Daubert challenged, scheduled to testify in court for reasonable Royalty  
**Case:** Patent Litigation and *Damages* Expert Royalty Calculation  
**Attorney Firm:** Machat Law and HDMN Law  
Deposed, Expert Report on Damages  
Case Settled 2021
- Netapp v. **Proven Networks**, PTAB Case: IPR2020-01436,  
**Proven Networks** vs. Netapp USDC Western District of Texas  
Declaration and Reports,  
**Case:** Network Storage, Protocols, Caching devices. **Code Reviews, Infringement, Validity, Deposed for IPR, Not Instituted**, Infringement, and Validity.  
**Attorney Firm:** Russ August & Kabat  
Settled
- **Talent Mobile Development** v. Headios Group -USDC California  
**Case:** Trademark, Mobile Software, iOS and Android Applications  
**Attorney Firm:** Machat Law  
Jury trial testimonial with 700k award (**Trial Testimony**)
- **TPI** vs Keller Williams, Inc, USDC Western District of Texas  
**Case:** Damages and Technical Expert Witness, Trade secrets, Reasonable royalties, software.  
**Attorney Firm:** White & Case LLP  
Settled 2020 (Deposed, Settled)
- **TrackTime, LLC** vs. Amazon, Inc – Delaware District Court  
Deposed, Expert Reports on Infringement and Invalidity, Code Reviews  
**Case:** Patent Infringement on Amazon Music Tap-to-Jump and Immersion Reading Multi-Page View  
**Attorney Firm:** Dunlap Bennet & Ludwig  
**Trial:** Testimony at Jury Trial – Infringement, Validity, Trial Testimony with Judge Norakia. Client lost.
- **University of Florida Research Foundation, Inc. et. al. v. Motorola Mobility LLC.** At Southern District of Florida  
**Attorney Firm:** Meltzer Law and Lundwall Law  
**Case:** Patent Litigation Matter – Wireless Communications and Emulation  
Case settled in 2014 (**Deposed**)
- **Other Consulting Engagements**
  - Consulting for a Wireless Charger analysis for a BMW X5 vehicle and other vehicles for a private citizen, Eric Mendis



- Review of X-Ray machine radiation reduction technology analysis for Dr. Phil.
- Review of Turbo Booster technology
- Review of MedMatch Networks Platform
- Architecture for Guiltless To GO LLC (GTG) , and CTO management for software platform, GTG was presented in Elevator Pitch, TV show.
- Review of Marine Cybersecurity systems in IT and OT.
- Advising - Pre-trial / 4 Confidential Defendants/Plaintiffs (2013-2014)