

Armando Guevara, PhD

AI GEOSPATIAL ROBOTICS · CEO / CTO

Innovation & Ingenuity Intelligently Applied to Continuously Improve Businesses P&L and Customer Satisfaction

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🗣️ Fully Bilingual (EN / ES)

THINKSAFE AI
Gtt NetCorp

@wherescience

ABOUT

Dr. Armando Guevara is a results-driven executive who turns corporate strategy into stronger P&L and into products that solve the customer's problem. He combines deep technical work in IT, imaging, sensors, geospatial systems, and robotics/AI with commercial leadership.

For over more than two decades he has led R&D and market introduction at **Esri** (GIS software development, later partner-network and channel development in LATAM); **Intergraph (now Hexagon)**, where he co-led the launch of *GeoMedia* and introduced the term "geospatial" into that product line; and **Visual Intelligence**, where as CEO/CTO he led innovation and patents in array-based imaging sensors (iOne STKA Wins Sensors Technology Award and Industry Recognition at Geospatial World Forum).

He currently leads as CEO/CTO **ThinkSafe Gtt NetCorp Group**, advancing **geospatial robotics**: the integration of location intelligence with autonomous systems to move security and ISR from reactive monitoring to proactive, AI-enabled prevention. Dr. Guevara has authored numerous technical writings and delivered keynotes worldwide on digital sensor arrays, 3D visualization, spatial data paradigms, and the science of where.

PROFESSIONAL CORE EXPERIENCE

P&L and operational management	Software development team building and leadership	Business development and strategy	Systems integration
New product and market development	Problem solving and business reengineering	Negotiation of strategic ventures	R&D management

PROFESSIONAL EXPERIENCE

ThinkSafe Gtt NetCorp Group (TS_GTTN) — CEO / CTO

2017 – Present

Houston, Texas (near NASA Johnson Space Center) · Platforms: www.ThinkSafe.AI / www.GttNetCorp.com / www.GeoDrones.com / www.ThinkSafe.com.mx

For more than 25 years the company has operated in the United States, Mexico, Central America, and Venezuela. Based near NASA's Johnson Space Center in the Houston area, TS_GttN delivers autonomous intelligent security solutions for defense, public safety, and commercial enterprise.

- Holds strategic, operational, and P&L responsibility. Shifted the business from GIS and high-resolution imagery integration to **geospatial robotics**: the convergence of geospatial technology with robotics and artificial intelligence.
- Integrates geospatial robotics and AI—systems designed to sense, decide, and act in the field—so security is proactive and preventive, not only reactive.

Visual Intelligence — President and Chief Executive Officer

2006 – 2017

Houston, Texas · www.visualintelligenceinc.com

Founded in 2003, a leading software sensor technology company delivering world-class geosensing solutions for airborne, terrestrial, and mobile applications. Recruited to build on the company's rich history of industry innovations.

- Provided strategic and operational direction. Accountable for corporate vision, technology R&D, and P&L management.
- Led a corporate turnaround that produced **USGS Sensor Type Certification**, numerous patents, and the **World Geospatial Forum Sensor Technology Innovation 2013 Award**.
- Led the creation of the **iOne Software Sensor Tool Kit Architecture (iOne STKA)** based on numerous existing patents. Built and led team to develop the most economical, best-performing multipurpose line of digital metric 2D, oblique, and 3D geosensing sensor products for aerial, ground, and mobile applications to "geoimage the 3D world online."

Intergraph Corp. (now Hexagon) — Executive Director, Business Development

1997 – 2006

Huntsville, AL / Tampa, FL · www.hexagon.com

INGR Fortune 1000 leading global manufacturer of software and hardware for a variety of Federal and Local Government applications ranging from aeronautical systems, plant design, mapping to 911-type technologies and services.

- Provided international Business Development leadership with focus in Latin America for the Intergraph GIS/Mapping and Federal divisions. Accountable for planning and executing growth strategy into Latin America.
- Successfully developed and executed business plan for the introduction of the innovative **GeoMedia** software technology into Latin America. Co-led the launch and introduced the term “*geospatial*” into that product line.
- Negotiated and set up joint ventures with companies in Latin America to sell or integrate Intergraph software products. **Achieved 100% regional sales coverage in less than a year.**
- Spearheaded the development and implementation of strategies to expand into new high-growth IT areas (“geolocation”, “Enterprise Solutions” requiring locational information), resulting in market penetration differentiator with regard to other GIS-oriented companies.
- Participated in CEO-led meetings to discuss matters of product direction and overall corporate strategy.

Genasys Ltd. — Senior Vice President, Business Development

1994 – 1997

Fort Collins, CO / Sydney, Australia / Madrid, Spain / Tampa, FL · www.genasys.com / www.genasys.es

Software Company originally based in Sydney, Australia. Provider of location (GIS)-based wireless communication technology and service provider.

- Provided business and technical leadership to introduce Genasys in Latin America. Established business strategy and created sales channels for a new software business unit in Latin America.
- Within two years the operation generated revenues that **exceeded the projected sales for that year.**
- Served the Genasys Technical Advisory Board in matters of marketing, product direction, and overall corporate strategy. Key contributor to establish product strategies and development direction based on adaptable spatial processing architectures, component-ware, and object-oriented technology to optimize component reusability.

ESRI — Principal Senior Software Engineering Manager / Co-Director R&D / Product Manager

1983 – 1994

Redlands, California · www.esri.com

Environmental Systems Research Institute (ESRI) is software technology company; world leader in Geographic Information Systems (GIS) software products.

- One of the product principal designers and developers of the **ArcInfo** (later became ArcGIS) and related technologies from Version 1 to Version 6.2.
- Co-designed the first versions of **ArcView, TIN, GRID, Build, Clean, Overlay, and Librarian** subsystems (mainly computational geometry-based systems).
- Designed, developed, and led software development for a new sorting processor to speed up the intersection of two planar graphs in 2D space and reconstruct the topological result.
- Engineered a new geometric processor, which yielded faster and more accurate results in the overlay of two planar graphs. Implemented in software products like *Build, Clean, Intersect, Join, Update, and Erase*, among others.
- The first suite of algorithms for triangular irregular network surface modeling (TIN software product).
- A new software development application interface for third-party development following the “visual development and Object Oriented” paradigm, enabling automatic generation of software development documentation, online visual browsing, and interactive module identification and coupling.
- Co-designed the contents and teaching of ESRI's first official ARC/INFO Training Course and Systems Programming globally.
- Co-established ESRI's first (and very successful today) Sales Distributor Network in Latin America and Spain.

EDUCATION

FORMAL EDUCATION

Ph.D. Geography GIS/CS

[State University of New York \(SUNY\) at Buffalo](#)

Diploma in International Development and Environmental Planning

[SUNY at Buffalo](#)

BSC Forestry Engineering / Geography

[University of the Andes \(ULA\), Mérida, Venezuela](#)

ONGOING EDUCATION

Business Development and Effective Negotiation

[Harvard University, MA](#)

Effective Business and Contract Negotiation

[Dr. Chester Karras Seminar](#)

Norton and Kaplan Strategy Maps Seminar

[The Balanced Scorecard as a Tool for Strategy Execution](#)

INDUSTRY LEADERSHIP / AUTHOR / SPEAKER / EDUCATOR

- **Academic Background:** Former Professor of Systems Engineering, Computer Science, ULA, Mérida, Venezuela.
- **Author & Presenter:** Written and presented numerous technical papers at international conferences.
- **Professional Affiliations:** Member of the Institute of Electrical and Electronic Engineers (IEEE); Member of American Society of Photogrammetry and Remote Sensing (ASPRS); Former Board Member, APRS Florida Chapter; Member of the Management Association for Private Photogrammetric Surveyors (MAPPS).
- **Consultant & Invited Speaker:** World Bank, United Nations Development Programme (UNDP), International Development Bank, INEGI, Geospatial Forum, et al.
- **Keynote Speaker:** Geospatial Forum Rotterdam 2013, Riegl International Conference Vienna 2013, CIGMA-United Nations Mexico City 2013, MAPPS Winter Conference 2014, GeoInt Brazil 2014.
- **Industry Network:** Broad network of US and international contacts in information technology, AI/Robotics, and the geospatial industry.
- **Citizenship & Languages:** U.S. Citizen · Fully Bilingual English-Spanish · Casual Portuguese (Portuguol).

SOCIAL AND LEISURE

- Raising children to success and be socially responsible with integrity · Practice of Martial Arts · An Albert Einstein Fan.
- Escapes to the beach when he gets the chance · Enjoys water skiing, sunsets and sunrises · For leisure, writes poetry and short stories.
- Aligned for the cause of preventing abuse of children and battered women.

SAMPLE ARTICLES & RELATED PRESS RELEASES (ALL 28 PUBLICATIONS)

1 · FEB 2024 On the origins of the geospatial term, the spatial enabling of information and the science of where

LinkedIn post.

3 · 2015 CIO Review Selects Visual Intelligence® for 20 Most Promising GIS Solution Providers 2015

WebWire press release.

5 · DEC 2014 Acute3D and Visual Intelligence Sign Partnership

GIM International; MundoGEO.

7 · OCT 2014 Visual Intelligence® Wins Two Awards from MAPPS for Groundbreaking iOne® Technology

WebWire press release.

9 · MAR 2014 Visual Intelligence's iOne Systems Available with SOMAG GSM 3000 Gyro Mount

PRWeb, 25 Mar 2014.

11 · MAR 2014 Visual Intelligence Redefines Capabilities of Medium Format Aerial Cameras with iOne M+

ASPRS Louisville.

13 · MAR 2014 The 3D Revolution Will Be Visualized

Sensors & Systems, 5 Mar 2014.

15 · SEP 2013 NEANY to Deploy Visual Intelligence's iOne IMS Metric Mapping System in Arrow UAVs

GISUser, 10 Sep 2013.

17 · AUG 2013 Geospatial Industry's First Multi-Purpose Oblique/3D Sensor

GISUser, Aug 2013.

19 · JUN 2013 Visual Intelligence Introduces iOne Infrastructure Metric Mapping System

RIEGL LiDAR 2013, Vienna.

21 · MAY 2013 iOne STKA Receives Industry Recognition at Geospatial World Forum

Technology Innovation Award.

23 · c. 2013 Transforming Aerial Imaging: A Paradigm Shift in Geospatial Intelligence

SlideServe presentation.

25 · 2012 Visual Intelligence's Iris One Airborne Camera Systems Based on iOne STKA

Gordon Petrie (ResearchGate).

27 · 2006 On the Spatial Enabling of Information Paradigm (rev. 06)

Written 1994, rev. 06.

2 · AUG 2016 A Software Toolkit Platform for Developing Next Generation Drone Array Sensors

CIO Review GIS magazine, p. 46.

4 · APR 2015 Maximizing Return with Flexible Digital Sensor Solutions — Sensors for a Multipurpose World

CIO Review GIS magazine, p. 50.

6 · OCT 2014 Visual Intelligence Wins Grand Award and Technology Innovation Award (MAPPS)

LIDAR Magazine.

8 · c. 2014 Creative Thinking Helps Image Providers Grow Their Business

GIM International.

10 · MAR 2014 iOne + SOMAG GSM 3000 (GISUser Tag / Related Coverage)

GISUser coverage.

12 · MAR 2014 Capabilities of Medium Format Aerial Cameras with iOne M+

GISUser, Mar 2014.

14 · JAN 2014 Miniaturized iOne STKA-ARCA Technology Licensed to BroadSpot for Retinal Imaging

BioSpace, 8 Jan 2014.

16 · AUG 2013 Patent for Imaging Arrays that Enable Mobile, Miniaturized 3-D Camera Sensors

U.S. Patent 8,471,907.

18 · AUG 2013 Geospatial Industry's First Multipurpose Oblique/3D Sensor

Earth Imaging Journal.

20 · JUN 2013 Visual Intelligence Offers iOne Infrastructure Mapping System

Global Positioning News.

22 · MAY 2013 Visual Intelligence's iOne STKA Wins Sensors Technology Award

Earth Imaging Journal.

24 · c. 2013 The iOne IMS Visual Intelligence Technical White Paper

SlideShare white paper.

26 · MAY 2010 GIS Cafe Interviews Armando Guevara | Modular and Scalable Systems

YouTube video (ASPRS 2010).

28 · APR 1989 On the Design of Geographic Information System Procedures

AUTO-CARTO 9, Baltimore.