# Curriculum Vitae of Miguel Gomez

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Mr. Gomez has thirty five years of experience in the design and development of hardware and software technology used in telecommunications, data communications, networking and storage infrastructure. He also is highly skilled in the use of microelectronics simulation software, ASIC & FPGA coding and Verilog. Mr. Gomez has designed and coded digital switching, optical encoders, and semiconductor memory hardware and software.

## Expertise

- ASIC & FPGA Design
- Computer Architecture
- Computer Buses, Cache, and I/O
- Hardware Emulators
- Hardware Programming Languages
- Hardware Verification & Test
- Software Programming Languages
- Network Protocols
- Telecom Protocols
- Storage, Raid Controllers
- Digital Switching Technology
- Modems
- Security in place, security in motion
- Compression Algorithms,
- Optical Encoders
- Video Capture and Display Systems
- Semiconductor Memories
- Power supply design
- Power Inverter design.
- Computer Vision

## Consulting Areas

Computer Architectures
- Data General
- IBM PC
- MIP 3000, 4000
- Intel 8051, x86, Pentium II
- Motorola 68000
- TI TMS320Cxx (DSP)
- PowerPC

Computer Buses:
- USB
- I2C
- PCI
- ISA
- EISA
- PCMCIA
- SBUS
- VME
- S100

Hardware Programming Languages:
- PALASM
- ABEL
- AHDL
- VHDL
- Verilog

Hardware Simulation and Compilation
- Synopsys VCD
- Synplicity
- ModelSim
- VerilogNC
- Spice, Hspice

ASIC and FPGA Design:
- Actel
- Altera
- Xilinx



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 1 of 25

Networking Protocols:
- ATM
- TCP/IP
- Ethernet
- VOIP
- HTTP/HTML
- SIP/SDP

Software Programming Languages:
- C,C++
- BASIC, VISUAL BASIC
- Assembly and Machine Languages
- FORTRAN
- Java
- Pascal
- Python/Django/bootstrap

Operating Systems:
- MSDOS
- Windows 3.1/NT/9x/2000/XP/CE
- UNIX

Communications
- Spread Spectrum (802.11a,b,g,n)
- LTE
- ODFM
- RF Transmission and reception
- CDMA/GSM

Power Electronics
- Solar Inverters
- 3-phase motors

CAD Tools
- Max+Plus II, Quartus (Altera)
- XACT, ISE (Xilinx)
- Mentor
- Orcad
- Allegro
- Viewlogic

- Schema
- P-Cad

Hardware Emulators
- Quickturn
- Ikos
- Zycad

Computer Memories
- SDRAM
- Rambus
- DDR I,II
- SDR

Compression:
- ADPCM

- H.264

## Education

| Year | College or University | Degree |
|---|---|---|
| 1983 | Yale University | BSEE |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 2 of 25

## Engineering Experience

From: April 2013
To: Present
Organization: Rockslide Analytics, LLC.
Title: CEO
Summary: Mr. Gomez founded Rockslide Analytics in order to develop and eventually sell a depth sensing camera. A depth sensing camera can image a scene in three dimensions. Currently Rockslide Analytics is also used to promote Mr. Gomez's consulting and expert work.

From: August 2006
To: March 30, 2009
Organization: ActSolar Inc.
Title: VP Engineering and System Architect
Summary: Mr. Gomez has designed and built a 400 watt power inverter which takes an input voltage of 30 volts DC and converts it to 240 VAC. Included in the design is an energy compensation circuit that recovers up to 40% of power normally lost due to power factor correction issues. Included as part of the inverter system was rooftop data collection for power and temperature with wireless connections to cloud management services.

ActSolar was sold to National Semiconductor Corp. on March 19, 2009.

From: September 2004
To: August 2005
Organization: BridgeWave Inc.
Title: Consultant
Summary: Mr. Gomez built a 10 gig Ethernet test platform to facilitate manufacturing tests of Bridgewave's high speed wireless network system. This system replaced the Smart Bits Ethernet test analyzer in the manufacturing test environment.

- Built test generator: Ethernet packet generator which generated packets of various sizes, address spaces, payload and checksums.
- Built test receiver and analyzer which detected various failure mechanisms, maintained statistics and reported them to a user interface written in Lab View.
- Used the Xilinx Vertex II in the 2003 version. Used Xilinx Spartan 3e in 2004 version.

From: September 2004
To: September 2004
Organization: PA Consulting Group
Title: Consultant



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 3 of 25

Summary: Miguel Gomez has provided hardware evaluation services for corporate mergers and acquisitions. These services include systems and hardware reviews in the following areas:

- Analysis of system performance to cost of the hardware implementation. Costs include development time, flexibility of the system for future growth and final product costs.
- Review of the VHDL and Verilog code implementations, documentation and development strategies.
- VHDL and Verilog code management including compilation processes, simulation, test coverage, bug tracking and source code control.
- FPGA and ASIC tool chain management.
- Circuit board design and layout for production environments
- Circuit board certification testing for FCC, UL, and Environmental tests
- Review of production line management including assembly and test processes.

From: Jan 2003
To: May 2003
Organization: Santel Networks
Title: Consultant
Summary: Mr. Gomez Developed an optical duo-binary (ODB) encoder. At 10.7 Giga bits per second (GBps) ODB reduces the spectral spread to ½ of the ordinary NRZ format. This format allows high spectral efficiency over long distances by reducing nonlinear penalties due to narrower channel spacing and allows a higher bit rate or increases transmission distances. The project was implemented in a Xilinx FPGA running at 667 Mbs with a 10.7 GHz Mux/Demux feeding 16 LVDS streams to the FPGA. The ODB behavior was simulated in a C-coded simulation. The circuit board's highest clock speed was 10.7 Gigahertz and was modeled in HSPICE. Board level simulation was performed using NCVerilog. Several Patents were applied for and the board was shown at the Optical Fiber Communication Conference & Exposition in March of 2003.

From: March 2001
To: December 2002
Organization: Extreme Networks, Inc.
Title: Director of Hardware, Content Networking Division
Summary: Mr. Gomez managed a team of Hardware and Software engineers, which developed and maintained a Layer 5 Content Addressable Switch. The switch is capable of L2, L3, L4 switching as well as L5 switching which uses HTTP headers to make routing decisions. All routing decisions were made in real time (1 GBPs) by hardware in FPGAs while a Power PC provided a user interface, configuration management and housekeeping diagnostics. Communications between the hardware elements and the PowerPC CPU was via a PCI bus.

From: January 2000
To: March 2001
Organization: Webstacks, Inc. (Now Extreme Networks, Inc.)



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 4 of 25

Title: Director of Hardware
Summary: Extreme Networks and several venture founding partners commissioned Webstacks to build a Content Addressable Switch. As the number four employee Mr. Gomez was hired to be the system architect and to in-turn to hire the hardware team which would implement it. He hired 13 ASIC, FPGA and software engineers into his department and managed them for the duration of the project. Time to development was one year and at that time functionality was proven to Extreme, which then bought Webstacks for $68MM cash and stock.

From: February 1997
To: December 1999
Organization: Philips Semiconductor
Title: Consultant
Summary:

- Developed the certification environment which was used by Philips Semiconductor and Microsoft to verify operation of Philips' Poseidon handheld chipset running Windows CE. This included board development, FPGA coding and simulation as well as porting Windows CE.
- Supported development of Philip's version of the Mips 4000 along with several of the peripheral devices that made up the system on a chip and the bus interconnect.
- Miguel Gomez also developed the ASIC logic and board level hardware for a 56Kbs software modem while at Philips.

From: September 1994
To: January 1997
Organization: Minden Group, Inc.
Title: President & Founder
Summary: After founding The Minden Group, Miguel Gomez developed several types of memory adapters used to adapt various sizes and types of memory sticks into Personal Computers. These were sold through retail stores throughout the nation. Over 250,000 memory adapters were sold at stores such as Fry's, CompUSA, Computer City and Future Shop. Miguel Gomez also designed a video conferencing system including a low cost video capture board and modified drivers. This system was also sold through the retail channels.
After developing these products he organized and managed a small team of 10 to 15 product managers and sales personal. Manufacturing was done in Taiwan with final assembly and distribution in the United States.

From: April 1989
To: August 1994
Organization: Spectrum Analysis, Inc.
Title: Founder & President
Summary: Consulting services company which Mr. Gomez founded specializing in computing, telephony and data systems. The company was a full service design firm capable of electrical circuit design with emphasis on ASIC, FPGA and ASIC emulation as well as complex PCB level designs. Responsibilities as founder were to identify specific business opportunities as well as to manage and implement portions of the technical projects.



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 5 of 25

| | |
|---|---|
| From: | August 1987 |
| To: | March 1989 |
| Organization: | Quickturn Systems, Inc. |
| Title: | Applications Manager |
| Summary: | Quickturn developed an ASIC emulator using Xilinx FPGAs. Mr. Gomez was hired as Quickturn's first applications engineer, and was initially responsible for developing the training and demonstration systems for Quickturn's initial customers. Later as the company matured, he managed the customer support team. Since this ASIC emulator worked at a fraction of clock speed, he developed a methodology of slowing board designs to 100s of KHz while maintaining clock and memory (DRAM) integrity. |

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|---|---|
| From: | July 1987 |
| To: | September 1988 |
| Organization: | Telestream Corporation |
| Title: | Applications Engineer |
| Summary: | Applications engineer responsible for demonstration system development, training and sales support of the Telestream programmable voice and data management system. |

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|---|---|
| From: | March 1985 |
| To: | April 1987 |
| Organization: | Stratacom, Inc. |
| Title: | Design Engineer |
| Summary: | Responsible for development and maintenance of an Adaptive Differential Pulse Code Modulation (ADPCM) voice compression board. This system allowed twice as many calls to be placed on Tl transmission lines. Also developed Stratacom’s digital data over T1 lines which was used in Stratacom's network management system, a precursor to frame-relay. |

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|---|---|
| From: | June 1983 |
| To: | March 1985 |
| Organization: | ROLM Corporation |
| Title: | Design Engineer |
| Summary: | Responsible for the development of a multiplex/demultiplex hardware board used in the ROLM BUS 295 telephone switch. A novel elastic buffer was used to automatically determine the length of an inter-cabinet data bus, whose length varied based on the customer's requirements. This eliminated the need for manufacturing technicians to manually adjust clock skew. |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 6 of 25

## Litigation Support Experience

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Fabricant LLP |
| Case Names: | Rampart v. NXP Semiconductors<br>6:21-CV-01294-ADA<br><br>Supported Rampart |
| Services Provided: | Investigated DDR SDRAM memory systems |
| Dates | December 2022 - September 2023 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Winston Strawn LLP |
| Case Names: | Flypsi Inc. v. Google LLC<br>6:22-cv-00031<br><br>Supported Flypsi |
| Services Provided: | Investigated Voice over IP software code. |
| Dates | February 2023 - Present |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Sheridan Ross LLC |
| Case Names: | K.Mizra v. Cisco Systems<br>6:20-cv-01031<br><br>Supported K.Mizra |
| Services Provided: | Investigated infringement related to contagion detection, isolation and repair. |
| Dates | February 2023 - Present |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 7 of 25

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|---|---|
| Law Firm: | Procopio, Cory, Hargreaves & Savitch LLP |
| Case Names: | RICMIC LLC v. Teldata Enterprise Networks<br>3:21-cv-1334-CAB-MDD |
| | Supported Teldata |
| Services Provided: | Wrote invalidity report to a health care and safety alerting system patent. Investigated prior art source code. |
| Dates | June 2022 - May 2023 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Hoge Fenton LLP |
| Case Names: | Michael Joseph Costabile v. Ustopit, LLC<br>7:21-cv-00155-BO |
| | Supported Michael Constablile |
| Services Provided: | Investigated infringement of timing systems in sports events. Wrote claim construction report and defended opinions at deposition. |
| Dates | August 2022 - March 2023 |

*Expert Engagement:*

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|---|---|
| *Type of Matter:* | Patent Infringement Case |
| *Law Firm:* | Fabricant LLP |
| *Case Names:* | RFCyber v. Apple Inc.<br>IPR2022-00412, IPR2022-00413 |
| | Supported RFCyber |
| *Services Provided:* | Wrote and defended a response to invalidity contentions concerning security used in financial transactions. |
| *Dates* | November 2022 - February 2023 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Fabricant LLP |
| Case Names: | Rampart Asset Management v. NXP, Renesas, Texas Instruments, Huawei and Silicon Motion.<br>6:20-cv-01031 |
| | Supported Rampart Asset Management |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 8 of 25

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|---|---|
| Services Provided: | Investigated infringement related to PCIe equalization circuits. |
| Dates | January 2022 - February 2022 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Fish and Richards |
| Case Names: | Ikorongo v. Bumble Trading LLC<br>6:20-cv-00256 |
| | Supported Bumble Trading LLC |
| Services Provided: | Investigated infringement related to collecting geographic location data from cell phones. |
| Dates | October 2021 - November 2021 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Folio Law PLLC |
| Case Names: | K.Mizra v. Cisco Systems<br>6:20-cv-01031 |
| | Supported K.Mizra |
| Services Provided: | Investigated infringement related to contagion detection, isolation and repair. |
| Dates | June 2021 - October 2021 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Mintz |
| Case Names: | Philips v. MediaTek, RealTek<br>337-TA-1222 |
| | Supported Philips |
| Services Provided: | Investigated infringement related to securing digital video. |
| Dates | January 2021 - July 2021 |

*Expert Engagement:*



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 9 of 25

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|---|---|
| *Type of Matter:* | Patent Infringement Case |
| *Law Firm:* | Russ August & Kabat |
| *Case Names:* | EcoFactor v. Google, ecobee, Alarm, Vivent<br>337-TA-1185 |
| | Supported EcoFactor |
| *Services Provided:* | Investigated infringement related to smart thermostat devices. |
| *Dates* | February 2020 - September 2020 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Russ August & Kabat |
| Case Names: | Pavo Technologies v. Kingston<br>8:14-cv-1352-JLS |
| | Supported Pavo |
| Services Provided: | Investigated infringement related to USB Flash Drives. I provided a written opinion, defended my opinions in a deposition and testified at trial. |
| Dates | February 2019 - February 2020 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Orrick |
| Case Names: | Infinity Computer Products Inc. v. Toshiba America Business Solutions'<br>2:12-cv-06796-NIQA |
| | Supported Konica Minolta Business Solutions (Defendant). |
| Services Provided: | Investigated infringement related to fax/business copy solutions |
| Dates | April 2019 - June 2019 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Contracts Dispute |
| Law Firm: | HorizonIP |
| Case Names: | Smith v. ORBCOMM |
| | Supported ORBCOMM |
| Services Provided: | Investigated geolocation services for asset tracking. |
| Dates | March 2019 - July 2019 |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 10 of 25

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Russ August & Kabat |
| Case Names: | SPEX Technologies v. Kingston |
| | Supported SPEX |
| Services Provided: | Investigated infringement related to secure disk drives. I provided a written opinion, defended my opinions in three depositions and testified at trial. |
| Dates | January 2017 - July 2020 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Orrick, Herrington & Sutcliffe |
| Case Names: | Synopsys v. Mentor Graphics Inv. |
| | Supported Synopsys |
| Services Provided: | Analyzed FPGA based hardware emulators relative to patent infringement allegations. Provided written statements. |
| Dates | December 2014 – September 2017 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Inter Partes Review |
| Law Firm: | Schmeiser, Olsen & Watts |
| Case Names: | NA |
| Services Provided: | Researched prior art related to video conferencing systems. |
| Dates | May 2016 – March 2017 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement and Trade Secret Cases |
| Law Firm: | Russ August & Kabat |
| Case Names: | VIA Technologies, Inc., et al. v. ASUS Computer International, Inc.Case No. 5:14-cv-03586-BLF |
| | Supported VIA Technologies. |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 11 of 25

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| Services Provided: | Analyzed hardware infringement of USB and PCIE drivers. Analyzed trade secrets theft of the same hardware. Provided written statements and oral testimony. I provided a written opinion, defended my opinions in three depositions and presented our positions at an arbitration hearing. |
| Dates | June 2015 – August 2017 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | CALDWELL CASSADY CURRY P.C. |
| Case Names: | Smartflash LLC, et al. v Google Inc., et al.,<br>Case No. 6:14-cv-435- KNM |
| Services Provided: | Analyzed Google in-app purchase client-server software. |
| Dates | January 2015 – November 2015 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Orrick, Herrington & Sutcliffe |
| Case Names: | Certain Consumer Electronics and Display Devices with Graphics Processing and Graphics Processing Units Therein<br><br>Nvidia v. Qualcomm, Samsung, Imagination<br>Inv. No. 337-TA-932<br><br>Supported Nvidia |
| Services Provided: | Analyzed thread execution and video processing in graphics integrated circuits. |
| Dates | December 2014 – May 2015 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | CALDWELL CASSADY CURRY P.C. |
| Case Names: | Smartflash LLC, et al. v Apple Inc., et al.,<br>Case No. 6:13-cv-447-MHS-KNM<br><br>Supported Smartflash |
| Services Provided: | Analyzed Apple in-app purchase client-server software. |
| Dates | June 2014 – August 2014 |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 12 of 25

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Young Basile Hanlon & MacFarlane P.C.<br>Durie Tangri |
| Case Names: | Narada Systems, LLC v. Tabula Inc.<br>Case No. 6:13-cv-336-LED<br><br>Supported Tabula Inc. |
| Services Provided: | Analyzed prior art related to FPGA switch and routing fabrics. |
| Dates | February 2014 – April 2014 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Morrison Foerster |
| Case Names: | Intellectual Ventures I & II, LLC et al. v. Altera Corporation et al.<br>Case No. 10cv 01065-LPS<br><br>Supported Altera and Xilinx |
| Services Provided: | Analyzed prior art related to systems on a chip. |
| Dates | September 2012 – May 2014 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | McKool Smith, Dallas Texas |
| Case Names: | ParkerVision Inc.  Inc. v. Qualcomm Incorporated.<br><br>Civil Action No. 3:11-cv-719-J-37-TEM<br><br>Supported ParkerVision |
| Services Provided: | Reviewed schematics related to the down conversion of  a radio frequency signal to a base band signal. |
| Dates | September 2012 – May 2013 |

*Expert Engagement:*

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | McKool Smith, Dallas Texas |
| Case Names: | WI-LAN INC., v. HTC CORPORATION, HTC AMERICA, INC., and EXEDEA, INC. |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 13 of 25

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|---|---|
| | Civil Action No. 2:11-CV-68<br>Supported WiLAN |
| Services Provided: | Investigated patent infringement related to the decoding and encoding of broadband transmission. I investigated VHDL, Verilog, C, and C++ source code related to Orthogonal Frequency Division Multiplexing and SC-OFDMA |
| Dates | September 2012 – August 2013 |
| *Expert Engagement:* | |
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Orrick, Herrington & Sutcliffe |
| Case Names: | Lantiq Deutschland GmbH v. Ralink Technology Corp., et al. |
| | Civil Action No. 11-cv-00234-EJD<br>Supported Ralink |
| Services Provided: | Investigated patent infringement related to fractional phase lock loops and integer phase lock loops embedded in Ethernet and DSL circuits. |
| Dates | May 2012 – September 2012 |
| *Expert Engagement:* | |
| *Type of Matter:* | Patent Infringement Case |
| *Law Firm:* | Morrison and Foerster |
| *Case Names:* | Sonic v. Arteris<br>UNITED STATES DISTRICT COURT<br>NORTHERN DISTRICT OF CALIFORNIA<br>Case No. 11-CV-05311 MEJ |
| | Supporting Sonic |
| *Services Provided:* | Investigating infringement of hardware patents related to integrated circuit interconnections. |
| *Dates* | March 2012 – February 2013 |
| *Expert Engagement:* | |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 14 of 25

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|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Quinn Emanuel |
| Case Names: | MotionPoint v. Transperfect |
| | Supported MotionPoint |
| Services Provided: | Investigated infringement of software patents related to language translation. Offered an opinion regarding MotionPoint's product infringement on the asserted patent and invalidity thereof. Testified at trial in the United States District Court, Northern District of California Oakland Division. |
| Dates: | August 2012 – July 1 2013 |

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| *Expert Engagement:* | |
| *Type of Matter:* | Patent Infringement Case |
| *Law Firm:* | Faegre Baker Daniels |
| *Case Names:* | Honeywell International, Inc, v. Nest Labs Inc., and Best Buy Co. Inc. Case No. 12-cv-299 (SRN/JSM) |
| | Supporting Honeywell International |
| *Services Provided:* | Investigated infringement of hardware patents related to power stealing. |
| *Dates:* | July 2012 – August 2012 |

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|---|---|
| *Expert Engagement:* | |
| Expert Engagement: | |
| Type of Matter: | Patent Infringement Case |
| Law Firm: | DLAPiper |
| Case Names: | MOTOROLA MOBILITY, INC. and GENERAL INSTRUMENT CORP. v. TIVO Inc.<br>UNITED STATES DISTRICT COURT<br>FOR THE EASTERN DISTRICT OF TEXAS<br>Civil Action No. 5:11-00053-DF |
| | Supported Motorola |
| Services Provided: | Investigated infringement of software patents related to Personal Video Recording devices. |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 15 of 25

Dates: February 2012 – August 2012

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Kellogg, Huber, Hansen, Todd, Evans & Figel. P.L.L.C. Washington D.C.
Case Names: TiVo Inc. v Verizon Communications Inc. et al.
UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF TEXAS MARSHALL DIVISION
Case No. 2:09-cv-257-DF (E.D. Tex.)

Supported Verizon

Services Provided: Investigated infringement of software patents related to digital video recording.

Dates: April 2012 – June 2012

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: McDermott Will & Emery
Case Names: MotionPoint v. Transperfect
UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
Case No. 4:10-cv-02590-CW (JCS)

Supported MotionPoint

Services Provided: Investigated infringement of software patents related to language translation.

Dates: January 2012 – June 2012

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: DLA Piper LLP
Case Names: Freescale Semiconductor v. Funai Electric, MediaTek Inc., Zoran Corporation
INTERNATIONAL TRADE COMMISSION
Case No. ITC 337-TA-786
Supporting Funai, MediaTek, Zoran.



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 16 of 25

Supported Zoran

Services Provided: None

Dates: October 2011 – June 2012

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Morrison and Foerster
Case Names: Altera v. LSI
UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
Case No. 11-cv-03139 CW
Supported Altera

Services Provided: Investigated infringement of hardware patents related to integrated circuit power management, clock recovery and high-speed bus implementations.

Dates June 2011 – September 2011

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Jones Day
Case Names: Nielsen. v comScore Inc.
UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF VIRGINIA ALEXANDRIA DIVISION
Case No. 1:11-cv-290-LMB-TRJ
Supported Nielsen

Services Provided: Investigated infringement of software patents related to the collection of demographic information from survey panels and automated user identification. I investigated C, C++, C#, Java and SQL code residing on servers and personal computers.

Dates June 2011 – September 2011

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Kellogg, Huber, Hansen, Todd, Evans & Figel. P.L.L.C. Washington D.C.
Case Names: Active Video Networks Inc. v Verizon Communications Inc.
UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF TEXAS MARSHALL DIVISION
Case No. 2:10-cv-248-RAJ-FBS



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 17 of 25

Supported Verizon

Services Provided: Investigated infringement of software patents related to communications between the set-top box and content providing servers at the communications head-end.

Dates December 2010 – March 2011

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.C. Washington D.C.
Case Names: HTC v. Apple Computers in the matter of Certain Portable Electronic Devices and Related Software.
UNITED STATES INTERNATIONAL TRADE COMMISSION
WASHINGTON D.C.
Case 337-TA-721

Supported HTC

Services Provided: Investigated infringement of software patents related to power management in smart phones.

Dates November 2010 – January 2011.

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Kellogg, Huber, Hansen, Todd, Evans & Figel. P.L.L.C. Washington D.C.
Case Names: Verizon Communications Inc. in the matter of Certain Digital Set-Top Boxes
UNITED STATES INTERNATIONAL TRADE COMMISSION
WASHINGTON D.C.
Case 337-TA-712
Case 337-TA-717

Supported Verizon

Services Provided: Investigated infringement of software patents related to communications between the set-top box and content providing servers at the communications head-end.

Dates June 2010 – September 2010

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: McKool Smith, Dallas Texas
Case Names: WiLAN Inc. v. Acer, et. al.



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 18 of 25

THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION

Civil Action No. 2-07CV-473 (E.D. Tex.)
WiLAN Inc. v. Acer, et. al.

Civil Action No. 2-07CV-473 (E.D. Tex.)
WiLAN Inc. v. Westell Technologies Inc.

Civil Action No. 2:08-CV-247 (TJW)
WiLAN Inc. v. RESEARCH IN MOTION CORPORATION,
RESEARCH IN MOTION LTD.,
MOTOROLA, INC., UTSTARCOM, INC.,
LG ELECTRONICS MOBILECOMM
U.S.A., AND LG ELECTRONICS, INC.,

Case No. 5:08-CV-04555-JW
WiLan v. Intel

Supported WiLAN

Services Provided: These cases consisted of 802.11a,b,g,n and Bluetooth investigations. In as much I investigated infringement of hardware patents related to the decoding and encoding of broadband transmission. Investigated Verilog, C, and C++ source code related to Bluetooth piconets, Orthogonal Frequency Division Multiplexing and Complementary Code Key incorporated in various integrated circuits. In addition to the above investigations, I was deposed and was asked to testify. This case settled before trial.

Dates: May 2009 – March 2011

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: Jones Day, Palo Alto CA.
Case Names: Agere Systems Inc. and LSI Corp. vs. Xilinx, Inc.
UNITED STATES DISTRICT COURT
SOUTHERN D1STR[CT OF NEW YORK
Case 09 Civ. 9717 (JSR)
Case 09 Civ. 9719 (JSR)

Supported Xilinx

Services Provided: Investigated infringement of hardware patents related to the implementation of Field Programmable Gate Arrays (FPGAs).

Dates: February 2010 – April 2010

*Expert Engagement:*



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 19 of 25

| | |
|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Goodwin Procter LLP |
| Case Names: | MedioStream, Inc. v. Acer, et al.<br>Consolidated Case No. 2:08-CV-369-CE, Eastern District of Texas |
| | Supported MedioStream |
| Services Provided: | Investigated infringement of software patents related to the decoding and encoding of video in Apple Computer products. Investigated C, C++ and Objective C source code in various video transcoding applications. |
| Dates | July 2009 – October 2010 |

*Expert Engagement:*

| | |
|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Womble Carlyle Sandridge & Rice. |
| Case Names: | Rembrandt Data Technologies vs. AOL LLC, et. al. |
| | THE UNITED STATES DISTRICT COURT<br>FOR THE EASTERN DISTRICT OF VIRGINIA - Alexandria Division<br>C.A. No. 1:08-cv-01009-GBL-IDD |
| | Supported Rembrandt Data Technologies. |
| Services Provided: | Investigated infringement of hardware and software patents related to the transmission of data, voice and video over cable networks. |
| | Miguel Gomez performed the following tasks:<br>▪ Investigated assembly level source code for a V.34 modem physical layer modulation and de-modulation circuit.<br>▪ Gave testimony at deposition. |
| Dates | April 2009 – June 2009 |

*Expert Engagement:*

| | |
|---|---|
| Type of Matter: | Patent Infringement Case |
| Law Firm: | Kellogg, Huber, Todd, Evans & Figel Washington D.C. |
| Case Names: | Rembrandt Data Technologies vs. Comcast, et. al. |
| | UNITED STATES DISTRICT COURT<br>FOR THE EASTERN DISTRICT OF TEXAS<br>MARSHALL DIVISION |
| | 2:06-cv-00047-TJW-CE<br>Rembrandt Data Technologies vs.<br>Rembrandt Data Technologies vs.<br>SHARP CORPORATION and<br>SHARP ELECTRONICS CORP. |



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 20 of 25

Case No. 2:06CV507 (LED)
Rembrandt Data Technologies vs.
CHARTER COMMUNICATIONS, INC., )
CHARTER COMMUNICATIONS )
OPERATING, LLC, and COXCOM, INC.

2:06-cv-00223-TJW-CE
Rembrandt Data Technologies vs.
CHARTER COMMUNICATIONS, INC,
CHARIER COMMUNICATIONS
OPERATING, LLC, COX
COMMUNICATIONS, INC, COXCOM,
INC, COX ENTERPRISES, INC., CSC
HOLDINGS, INC, and CABLEVISION
SYSTEMS CORPORATION,

**THE UNITED STATES BANKRUPTCY COURT**
**SOUTHERN DISTRICT OF NEW YORK**
Case No. 02-41729 (REG)
Rembrandt Data Technologies vs.
Adelphia Communications Corporation; )
Century-TCI California, LP; )
Century-TCI California Communications, LP; )
Century-TCI Distribution Company, LLC; )
Century-TCI Holdings, LLC; )
Parnassos, LP; )
Parnassos Communications, LP; )
Parnassos Distribution Company I, LLC; )
Parnassos Distribution Company II, LLC; )
Parnassos Holdings, LLC; )
Western NY Cablevision, LP

Supported Rembrandt Data Technologies.

Services Provided: Investigated infringement of hardware and software patents related to the transmission of data, voice and video over cable networks.

Miguel Gomez performed the following tasks:
- Investigated Verilog source code used to implement a modem physical layer modulation and de-modulation circuit.
- Investigated C and C++ software used to implement cable modems.

Dates September 2008 – February 2009

*Expert Engagement:*
Type of Matter: Patent Infringement Case
Law Firm: Hogan and Hartson, New York NY
Case Names: ProMOS Technologies vs. Freescale Semiconductor Inc.
Case No. 06-788 JJF (D. Del.)

Supported ProMOS



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 21 of 25

Services Provided: Investigated infringement of hardware logic patents related to cache controllers.

Miguel Gomez performed the following tasks:

- Investigated Verilog source code used to implement a cache controllers in integrated circuits designed and produced by Freescale Technologies.

Dates February 2008 – August 2008

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: McKool Smith, Dallas Texas
Case Names: i4i Limited Partnership vs. Microsoft., et al.

THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
TYLER DIVISION
Case No. 6:07-CV-113-LED

Supported i4i.

Services Provided: Investigated infringement of software patents related to the organization of XML data.

Miguel Gomez performed the following tasks:

- Investigated C and C++ software code that read, displayed and managed XML constructs in Microsoft office software products.

Dates November 2007 – August 2008

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: McKool Smith, Dallas Texas
Case Names: Rembrandt Data Technologies vs. Comcast., et al.
MDL Docket No. 07-mdl-1848 GMS

Supported Rembrandt Data Technologies.

Services Provided: Investigated infringement of software and hardware patents related to the transmission of data, voice and video over cable networks.

Miguel Gomez performed the following tasks:

- Investigated C and C++ software code in the cable modem management layer that controlled data flows through the various chip sets of the cable modem.
- Investigated DSP code that provided data connection services in cable modems.

Dates May 2007 – July 2007

*Expert Engagement:*



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 22 of 25

Type of Matter: Patent Infringement Case
Law Firm: McKool Smith, Dallas Texas
Case Names: Samsung vs. Ericsson et al.,

UNITED STATES INTERNATIONAL TRADE COMMISSION
WASHINGTON, D.C.
Case No. 337-TA-583
Case No. 337-TA-577

Supported Ericsson.

Services Provided: Investigated infringement of patents in cell phones.

Miguel Gomez performed the following tasks:

- Investigated C and C++ software code that controlled the power management and clock calibrations.
- Reviewed hardware description language code and DSP firmware to trace the control flow from the managing software down to the hardware registers.
- Wrote an expert report that documented the findings.
- Acquired and wrote software tools to assist the investigation process.

Dates January 2007 – May 2007

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: McKool Smith, Dallas Texas
Case Names: American Video Graphics, L.P. vs. Sony Computer Entertainment America
American Video Graphics, L.P. vs. Hewlett Packard Co., et al.,

Supported American Video Graphics.

Services Provided: Investigated patent infringement in graphic chipsets used in personal computers and game consoles.

Miguel Gomez performed the following tasks:

- Investigated the accused chipsets by examining the hardware code for various sub-modules including the 2D and 3D rendering engines and the frame buffers that connect the graphics processing units to memory devices.
- Wrote claim charts and created exhibits.
- Acquired and wrote software tools to assist the investigation process.

Dates August 2005 – November 2005

*Expert Engagement:*

Type of Matter: Patent Infringement Case
Law Firm: McKool Smith, Dallas Texas
Case Names: American Video Graphics, L.P. vs. Sony Corporation of America, et al.,
American Video Graphics, L.P. vs. Hewlett-Packard Co., et al.,
American Video Graphics, L.P. v. Electronic Arts, Inc., et al., No. 6:04-CV-398 LED



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 23 of 25

Supported American Video Graphics.

Services Provided: Patent infringement investigation of computer game software.

Miguel Gomez performed the following tasks:

- Examined C and C++ source code for electronic computer games which ran on Sony, Microsoft and Nintendo game consoles as well as Personal Computers
- Wrote a claim chart and created exhibits.

Dates May 2005 – August 2005

*Expert Engagement:*

Type of Matter: Patent Infringement
Law firm: Dewey Ballantine, Palo Alto, California
Case Name: Matsushita vs. Texas Instruments

Supported Matsushita.

Services Provided:

- Read and interpreted approximately 50 patents issued to Matsushita for Dewey Ballantine attorneys in their preparation for litigation between Matsushita and Texas Instruments.

Dates: November 2004 – March 2005

*Expert Engagement:*

Type of Matter: Patent Infringment
Law firm: Wilson Sonsini Goodrich Rosatti
Case Name: Zoran vs MediaTek et, al.

Supported MediaTek.

Service Provided: Offered an opinion as to when a product was ready for patenting per the requirements for an on-sale bar.

Miguel Gomez performed the following tasks:

- Offered an opinion as to whether the product in this was ready to be patented
- Reviewed all available documentation.
- Wrote report and rebuttal to opposition expert report
- Gave testimony at deposition and provided a written opinion at the ITC hearing.

Dates

September 2004 – February 2005



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 24 of 25

## Patents

**Issued Patents**

7,814,204 Method of and system for analyzing the content of resource requests

7,447,777 Switching system

7,298,746 Method and system for reassembling and parsing patents in a network environment

7,321,926 Method of and system for allocating resources to resource requests

8,412,838 Method of and system for analyzing the content of resource requests

**Applications**

"System and Method for an array of intelligent inverters"
European: 09747629.5-1242/2291908
US PCT/US2009044033
Also published as: CN102067429A, US2090283129, WO2009140548A3



Orckit Exhibit 2026
Cisco Systems, Inc. v. Orckit Corp.
IPR2023-00402, Page 25 of 25