

Design Services Partner Profile



Orthogone Technologies Inc Company Overview

Date : 03/23/2021

www.orthogone.com

Partner Details

Partner Tier: Premier
Headquarters Location: 2250 Alfred-Nobel Boulevard, Suite 500, Saint-Laurent, QC, Canada
Xilinx Alliance Partner Since: 10/15/2012

Key Contact Info

Sylvie Briere
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Regions Served

Supported Product Types

Yes	Design Services	No	Embedded Products
Yes	IP	No	EDA Tools
No	Boards		

Engineering Service Types

Yes	General Purpose Services	Preferred
Yes	Services in Support of Products Sold	
Yes	Services Leading to Contract Manufacturing	
Maximum Service Scope:		Turnkey / full product design

Engagement Models Supported

Yes	SOW-Based Fixed Bid Projects	Preferred
Yes	Time and Materials	
Both	Captive Resources at Partner or Customer Premises	

Xilinx Design Tool Experience

Yes	Vivado	Yes	SDSoC
No	HLx	No	SDAccel

Industry Certifications Achieved

Industry Certification Services Offered CE, FCC, Other / Contact Partner, UL

Government Clearances

Controlled Goods Program (Canada)

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Orthogone Technologies Inc Segment and Application Focus

Secondary Focus	Defense/Aerospace	<ul style="list-style-type: none"> No Focus No Focus No Focus Secondary Focus No Focus No Focus Secondary Focus Secondary Focus Primary Focus No Focus 	<ul style="list-style-type: none"> Homeland Security Electronic Warfare ISR Space Missiles & Munitions Military Avionics Commercial Avionics SatComm Wireless Milcom Other A&D
Primary Focus	Audio, Video, Broadcast	<ul style="list-style-type: none"> Secondary Focus Primary Focus Primary Focus Primary Focus Primary Focus No Focus Secondary Focus No Focus No Focus 	<ul style="list-style-type: none"> Encoders & Decoders Monitors & Projection Networking & Converters Audio Systems Video Processing Cards Video Conferencing Routers and Switches Pro Cameras & Camcorders Other Broadcast
Secondary Focus	Automotive & Transport	<ul style="list-style-type: none"> Primary Focus Primary Focus Primary Focus Primary Focus Primary Focus 	<ul style="list-style-type: none"> Driver Assist - Camera Driver Assist Radar/LIDAR Driver Info/Infotainment Automated Driving Other Automotive
Secondary Focus	Consumer	<ul style="list-style-type: none"> Primary Focus No Focus No Focus No Focus 	<ul style="list-style-type: none"> Digital Display Drones Multifunction Printers Other Consumer
Primary Focus	Datacenter	<ul style="list-style-type: none"> No Focus Primary Focus Primary Focus 	<ul style="list-style-type: none"> Storage Compute Networking
Secondary Focus	Industrial, Medical	<ul style="list-style-type: none"> No Focus Secondary Focus Primary Focus Primary Focus Primary Focus No Focus No Focus 	<ul style="list-style-type: none"> Motor Control Industrial Networking Surveillance Machine Vision Medical Imaging Medical / Clinical Other ISM

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Orthogone Technologies Inc Segment and Application Focus (continued)

Secondary Focus	Test & Measurement	No Focus Secondary Focus No Focus Secondary Focus Secondary Focus Secondary Focus	Simulation / Emulation T & M Instrumentation Semiconductor Test Wired Communication Test Wireless Communications Test Other Test & Measurement
Primary Focus	Wired Comms & Networks	Primary Focus Secondary Focus Primary Focus No Focus Primary Focus No Focus Primary Focus No Focus	Access Equipment Long Haul/Transport Wired Mobile Backhaul OTN Enterprise Equipment Ethernet Interlaken Connectivity Packet Processing Other Wired Communications
Primary Focus	Wireless Comms & Networks	Primary Focus Primary Focus Primary Focus Primary Focus No Focus	Baseband Wireless Backhaul Connectivity & Switching Radio Other Wireless

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Design Competencies

System Architecture	Primary Focus	Expertise in wireless/wired infrastructure, LiDAR sub-system, embedded vision, display interfaces, IoT
RF and Analog Design	Primary Focus	RF: Microwave backhaul & small cells design (baseband to antenna). WiFi/BT Modules, 4G Modules, GPS/GNSS chip/module. Analog: Power Supply design, clock gen. and distribution (DAC/ADC), laser driver, photodiode array, etc.
FPGA Design and Integration	Primary Focus	FPGA IP Cores FPGA Architecture, Design, Verification (UVM-Based), Test & Integration
FPGA Timing Closure	Primary Focus	Timing closure
FPGA Design Optimization	Primary Focus	Area reduction: e.g. Time-slice techniques. Low-power consumption (e.g. SFP+ module, low-power memory controller, etc.)
Signal Integrity Design and Analysis	Primary Focus	SerDes Links (jitter link budget, IBIS-AMI, crosstalk, etc.) DDR-3/4 Memory simulations (timing closure, signal integrity)
	Inhouse or Subcontracted:	Inhouse
	Typical Serial Speed:	1025
PCB Design & Layout	Primary Focus	High-speed layout. High-Density Interconnect (ball pitch down to 0.4mm). RF, Analog, high-speed digital, etc.
	Inhouse or Subcontracted:	Both
Industrial and Mechanical Design	Secondary Focus	Design partner (industrial design and mechanical engineering)
	Inhouse or Subcontracted:	Subcontracted
Industry Certification and Compliance Testing	Secondary Focus	Generally provide pre-certification design services (e.g. EMI/EMC, UL, CE, FCC, HDMI, etc.)
	Inhouse or Subcontracted:	Both
Quality and Reliability Testing	Secondary Focus	MTTF, MTBF Analysis, HALT Testing (partners)
	Inhouse or Subcontracted:	Subcontracted
Contract Manufacturing	Secondary Focus	NPI (CM partner)
	Inhouse or Subcontracted:	Subcontracted
	Max Quantities Supported:	None
Digital Signal Processing	Primary Focus	Audio DSP, Radar applications
	Experience:	TI OMAP, Myriad (Intel), CSR (QualComm)
Embedded Processors	Primary Focus	Micro-controller, Micro-processor (processing, multi-media), FPGA embedded, General Purpose Processor
	Experience:	TI, QualComm 8xx, NXP i.MX-

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Embedded Porting / BSP Extension	Primary Focus	BSP, Embedded OS/RTOS development and porting.
OS and RTOS Design Experience:	Android, FreeRTOS, Linux, QNX, ThreadX, Windows Embedded	
Embedded Application Development	Primary Focus	API and Device drivers, communication stacks (Ethernet, TCP/IP, PCIe, USB, etc.), security frameworks, etc.
Image Sensor Fusion	No Focus	
Homo or Heterogeneous: Sensor Types Design Experience:		
Computer Vision	Primary Focus	Automotive LiDAR, frame grabbers, image sensors and cameras, medical imaging application, (ultra high resolution sensor)
Machine Learning	Secondary Focus	Image classification
Framework Experience: Network Model Experience:		
