

Design Services Partner Profile

DornerWorks, Ltd. Company Overview

Date : 03/04/2020

<https://dornerworks.com/>

Partner Details

Partner Tier: Premier
 Headquarters Location: 3445 Lake Eastbrook Blvd. SE, Grand Rapids, MI, USA
 Xilinx Alliance Partner Since: 2/3/2012

Key Contact Info

Lance Hilbelink
 lance.hilbelink@dornerworks.com

Regions Served

Supported Product Types	Yes	Design Services	Yes	Embedded Products
	Yes	IP	No	EDA Tools
	Yes	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	
Yes	Time and Materials	Preferred
At my location	Captive Resources at Partner or Customer Premises	

Xilinx Design Tool Experience

Yes	Vivado	Yes	SDSoC
Yes	HLx	Yes	SDAccel

Industry Certifications Achieved

AS 9100, ISO 13485, ISO 9001

Industry Certification Services Offered

Other / Contact Partner

Government Clearances

ITAR, Facility Security Clearance - Secret

Design Services Partner Profile

DornerWorks, Ltd. Segment and Application Focus

Primary Focus	<u>Defense/Aerospace</u>	Secondary Focus Secondary Focus Primary Focus Secondary Focus Secondary Focus Primary Focus Secondary Focus Secondary Focus Primary Focus Secondary Focus	Homeland Security Electronic Warfare ISR Space Missiles & Munitions Military Avionics Commercial Avionics SatComm Wireless Milcom Other A&D
Secondary Focus	<u>Audio, Video, Broadcast</u>	No Focus Secondary Focus Primary Focus Secondary Focus Secondary Focus No Focus Secondary Focus Secondary Focus Secondary Focus	Encoders & Decoders Monitors & Projection Networking & Converters Audio Systems Video Processing Cards Video Conferencing Routers and Switches Pro Cameras & Camcorders Other Broadcast
Secondary Focus	<u>Automotive & Transport</u>	Primary Focus Primary Focus Secondary Focus Secondary Focus Secondary Focus	Driver Assist - Camera Driver Assist Radar/LIDAR Driver Info/Infotainment Automated Driving Other Automotive
No Focus	<u>Consumer</u>	No Focus No Focus No Focus No Focus	Digital Display Drones Multifunction Printers Other Consumer
No Focus	<u>Datacenter</u>	No Focus No Focus No Focus	Storage Compute Networking
Primary Focus	<u>Industrial, Medical</u>	Secondary Focus Primary Focus Secondary Focus Secondary Focus Primary Focus Primary Focus Secondary Focus	Motor Control Industrial Networking Surveillance Machine Vision Medical Imaging Medical / Clinical Other ISM

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DornerWorks, Ltd. Segment and Application Focus (continued)

Secondary Focus	Test & Measurement	<ul style="list-style-type: none"> Primary Focus Secondary Focus No Focus No Focus No Focus Secondary Focus 	<ul style="list-style-type: none"> Simulation / Emulation T & M Instrumentation Semiconductor Test Wired Communication Test Wireless Communications Test Other Test & Measurement
Secondary Focus	Wired Comms & Networks	<ul style="list-style-type: none"> No Focus No Focus No Focus No Focus No Focus No Focus Secondary Focus Secondary Focus 	<ul style="list-style-type: none"> Access Equipment Long Haul/Transport Wired Mobile Backhaul OTN Enterprise Equipment Ethernet Interlaken Connectivity Packet Processing Other Wired Communications
Secondary Focus	Wireless Comms & Networks	<ul style="list-style-type: none"> No Focus No Focus Secondary Focus Secondary Focus Secondary Focus 	<ul style="list-style-type: none"> Baseband Wireless Backhaul Connectivity & Switching Radio Other Wireless

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Design Competencies

System Architecture	Primary Focus	Get Turnkey solutions from requirements through validation. Experienced in Design Migration, replacing obsolete parts with FPGAs and CPLDs, and migrating designs to modern technology.
RF and Analog Design	No Focus	
FPGA Design and Integration	Primary Focus	Specialty in algorithm development and acceleration from models or from software, using
FPGA Timing Closure	Primary Focus	
FPGA Design Optimization	Primary Focus	Experienced staff have optimized a variety of algorithms and designs, with up to 100x performance improvements.
Signal Integrity Design and Analysis	Primary Focus	
	Inhouse or Subcontracted: Inhouse Typical Serial Speed:	
PCB Design & Layout	Primary Focus	Defense, Medical, Industrial PCB design experience with a variety of toolchains. OrCAD, MentorGraphics, Altium.
	Inhouse or Subcontracted: Inhouse	
Industrial and Mechanical Design	Secondary Focus	Offered through trusted partners
	Inhouse or Subcontracted: Subcontracted	
Industry Certification and Compliance Testing	Secondary Focus	Offered through trusted partners
	Inhouse or Subcontracted: Subcontracted	
Quality and Reliability Testing	Secondary Focus	Automated software testing, shock/vibration testing, etc.
	Inhouse or Subcontracted: Both	
Contract Manufacturing	Secondary Focus	Offered through trusted partners
	Inhouse or Subcontracted: Subcontracted Max Quantities Supported: 1000s	
Digital Signal Processing	Primary Focus	
	Experience: Zynq US+, Zynq, RFSoc, Softcore DSP, other mfrs	
Embedded Processors	Primary Focus	We thrive where hardware and software design meet, including low level drivers and BSP to support the system.
	Experience: Zynq US+, Zynq, ARM, M4, Freescale,	

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Microchip

Embedded Porting / BSP Extension OS and RTOS Design Experience:	Primary Focus Android, FreeRTOS, Linux, Nucleus, QNX, Ubuntu Linux, VxWorks, Windows Embedded, Xen, uC/OS	Our support of Xen for Zynq US+ processors enables users to take advantage of its vast capabilities. We thrive where hardware and software design meet, including low level drivers and BSP to support the system.
Embedded Application Development Image Sensor Fusion Homo or Heterogeneous: Sensor Types Design Experience:	Primary Focus Secondary Focus Heterogeneous Compass, GPS / Position, Gyro, IR, Inclinometer, Radar, Thermal, Tilt, Video (SD, HD)	We specialize in high-reliability, scalable applications for a variety of industries: defense/aerospace, medical, and more. Worked with sensor fusion for RFID and object localization as well as drone positioning and tracking. Hand pose recognition using time-of-flight IR camera and feed forward neural network.
Computer Vision	Secondary Focus	
Machine Learning Framework Experience: Network Model Experience:	Secondary Focus TensorFlow	Machine Learning R&D. We have implemented neural network algorithms in Matlab and C.