

Design Services Partner Profile



Brass Roots Technologies LLC Company Overview

Date : 03/31/2020

BrassRootsTech.com

Partner Details

Partner Tier: Member
Headquarters Location: 18 Prestige Circle, Allen, TX, USA
Xilinx Alliance Partner Since: 5/13/2013

Key Contact Info

Wayne Reynolds
wayne@brassrootstech.com

Regions Served

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

Xilinx Design Tool Experience	Yes	Vivado	No	SDSoC
	No	HLx	No	SDAccel

Industry Certifications Achieved

Industry Certification Services Offered Other / Contact Partner

Government Clearances None

Design Services Partner Profile

Brass Roots Technologies LLC Segment and Application Focus

No Focus	Defense/Aerospace	<ul style="list-style-type: none"> No Focus No Focus No Focus No Focus No Focus No Focus No Focus No Focus No 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"> No Focus Primary Focus No Focus No Focus Primary Focus No Focus No Focus No Focus No Focus Primary 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
Primary Focus	Automotive & Transport	<ul style="list-style-type: none"> Primary Focus No Focus No Focus No Focus No 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
No Focus	Datacenter	<ul style="list-style-type: none"> No Focus No Focus No Focus 	<ul style="list-style-type: none"> Storage Compute Networking
Primary Focus	Industrial, Medical	<ul style="list-style-type: none"> No Focus No Focus No Focus No Focus No Focus No Focus No Focus 	<ul style="list-style-type: none"> Motor Control Industrial Networking Surveillance Machine Vision Medical Imaging Medical / Clinical Other ISM

Design Services Partner Profile



Brass Roots Technologies LLC Segment and Application Focus (continued)

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

Design Services Partner Profile

Design Competencies

System Architecture	Primary Focus	Platform and subsystem architecture design and analysis (Algorithms, HW, FW, SW)
RF and Analog Design	Secondary Focus	High Speed LED drivers, TEC control, embedded photonic measurement
FPGA Design and Integration	Primary Focus	Full Service (3+ Engineers)
FPGA Timing Closure	Primary Focus	Full Service (3+ Engineers)
FPGA Design Optimization	Primary Focus	Full Service (3+ Engineers)
Signal Integrity Design and Analysis	Primary Focus	In House up to ~1GHz
	Inhouse or Subcontracted: Both Typical Serial Speed: 10	
PCB Design & Layout	Secondary Focus	Multilayer controlled impedance digital and analog
	Inhouse or Subcontracted: Both	
Industrial and Mechanical Design	Primary Focus	Product Architecture and Design using SolidWorks and Zemax for mechanics, custom optics, cooling, etc.
	Inhouse or Subcontracted: Both	
Industry Certification and Compliance Testing	Secondary Focus	Support Medical Product Design Compliance with customer integrator
	Inhouse or Subcontracted: Subcontracted	
Quality and Reliability Testing	Secondary Focus	Thermal, Humidity, Lifetime testing
	Inhouse or Subcontracted: Both	
Contract Manufacturing	Secondary Focus	Prototype and Preproduction models and subsystems, Production PCBs
	Inhouse or Subcontracted: Both Max Quantities Supported: 100s	
Digital Signal Processing	Primary Focus	Custom HFR, HDR, Image Formatting
	Experience: Custom IP	
Embedded Processors	Primary Focus	General Control, Video Data Routing
	Experience: Zynq	
Embedded Porting / BSP Extension	Secondary Focus	General Control, Video Data Routing
	OS and RTOS Design Experience: Linux	
Embedded Application	Primary Focus	Custom HFR, HDR, Image Formatting



Design Services Partner Profile

Development

Image Sensor Fusion

Homo or Heterogeneous:

Sensor Types Design Experience:

Computer Vision

Machine Learning

Framework Experience:

Network Model Experience:
