

Design Services Partner Profile

A2e Technologies Company Overview

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www.a2etechnologies.com

Partner Details

Partner Tier: Certified
 Headquarters Location: 10949 Technology Place Suite B, San Diego, CA, USA
 Xilinx Alliance Partner Since: 3/2/2004

Key Contact Info

Drew Traver
 dtraver@a2etechnologies.com

Regions Served

APAC, Central and South America,
 Japan, Middle East, North America
 Central, North America East, North
 America West, Western Europe

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	
No	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
Both	Captive Resources at Partner or Customer Premises	

Xilinx Design Tool Experience

Yes	Vivado	No	SDSoC
Yes	HLx	No	SDAccel

Industry Certifications Achieved

Industry Certification Services Offered

Government Clearances

ITAR

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A2e Technologies Segment and Application Focus

Primary Focus	Defense/Aerospace	<ul style="list-style-type: none"> No Focus No Focus Primary 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"> Primary Focus No Focus Secondary Focus No Focus No Focus Primary Focus No Focus Primary 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 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"> No Focus Primary 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"> Secondary Focus No Focus Primary Focus Secondary 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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A2e Technologies Segment and Application Focus (continued)

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

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Design Competencies

System Architecture	Primary Focus	
RF and Analog Design	Primary Focus	A2e has the ability to design custom analog and RF solutions for its customers. We have the ability to design GHz AtoD and DtoA, active and passive filters, amplifiers, PLLs, voltage controlled oscillators, mixers and more
FPGA Design and Integration	Primary Focus	A2e provides industry leading FGPA consulting services. We are a Certified Design Partner with Xilinx and are knowledgeable with all the unique features of their technologies. We can use our FPGA expertise to design a custom
FPGA Timing Closure	Secondary Focus	
FPGA Design Optimization	Secondary Focus	
Signal Integrity Design and Analysis	Primary Focus	A2e has the experience and tools to do both pre and post route SI simulation and advise you of the corrective steps to take. We can work with your engineers and layout personnel before and during layout to help ensure a high
	Inhouse or Subcontracted: Inhouse Typical Serial Speed: 5	
PCB Design & Layout	Primary Focus	A2e provides exceptional PCB layout services. Our expertise covers minimizing layer count for high-volume low cost products to 30+ layer complex boards. We have the experience and training to correctly design noise sensitive
	Inhouse or Subcontracted: Both	
Industrial and Mechanical Design	No Focus	
	Inhouse or Subcontracted: Subcontracted	
Industry Certification and Compliance Testing	No Focus	
	Inhouse or Subcontracted: Both	
Quality and Reliability Testing	Secondary Focus	We test EVERY design we do to a jointly agreed to ATP.
	Inhouse or Subcontracted: Both	
Contract Manufacturing	Secondary Focus	A2e is an expert at providing lower volume manufacturing services and can handle everything including warranty for boards. This provides a great solution for lower volume customers.
	Inhouse or Subcontracted: Subcontracted	

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	Max Quantities Supported:	1000s
Digital Signal Processing	Secondary Focus	Experience with DSP for RF communication and image processing. A2e has created complete front ends for OFDM radios. Image processing experience covers images compression, scaling, noise filtering, and Image Signal Proces
	Experience:	
Embedded Processors	Primary Focus	Zynq and MicroBlaze. We have used multiple RTOS on the zynq in the following combinations: Linux on both ARM cores, Linux on one and bare metal on one, Bare metal on one and free rtos on the other. Linux on Both ARM cores
	Experience:	
Embedded Porting / BSP Extension	Secondary Focus	Linux, Bare metal, Free RTOS
	OS and RTOS Design Experience:	
Embedded Application Development	Primary Focus	streaming video systems, electro-mechanical stabilization systems, motor control, temperature control, network controllers
Image Sensor Fusion	Secondary Focus	Fusion of Infra Red, visible, and status overlay into one image. In addition, image was compressed with a2e h264 core and wirelessly streamed to smart phones
	Homo or Heterogeneous:	Heterogeneous
	Sensor Types Design Experience:	GPS / Position, IR, Thermal, Video (SD, HD)
Computer Vision	Primary Focus	Experts at image compression and decompression. FPGA cores for H.264 and JPEG.
Machine Learning	No Focus	
	Framework Experience:	
	Network Model Experience:	