

# Design Services Partner Profile



## A2e Technologies Company Overview

Date : 11/30/2017

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

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

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## A2e Technologies Segment and Application Focus (continued)

Primary Focus	<b>Test &amp; Measurement</b>	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	<b>Wired Comms &amp; Networks</b>	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	<b>Wireless Comms &amp; Networks</b>	Primary Focus	Baseband
		Secondary Focus	Wireless Backhaul
		Secondary Focus	Connectivity & Switching
		Primary Focus	Radio
		Secondary Focus	Other Wireless

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## Design Competencies

<b>System Architecture</b>	Primary Focus	
<b>RF and Analog Design</b>	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
<b>FPGA Design and Integration</b>	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
<b>FPGA Timing Closure</b>	Secondary Focus	
<b>FPGA Design Optimization</b>	Secondary Focus	
<b>Signal Integrity Design and Analysis</b>	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	
<b>PCB Design &amp; Layout</b>	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	
<b>Industrial and Mechanical Design</b>	No Focus	
	Inhouse or Subcontracted: Subcontracted	
<b>Industry Certification and Compliance Testing</b>	No Focus	
	Inhouse or Subcontracted: Both	
<b>Quality and Reliability Testing</b>	Secondary Focus	We test EVERY design we do to a jointly agreed to ATP.
	Inhouse or Subcontracted: Both	
<b>Contract Manufacturing</b>	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
<b>Digital Signal Processing</b>	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
	<b>Experience:</b>	
<b>Embedded Processors</b>	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
	<b>Experience:</b>	
<b>Embedded Porting / BSP Extension</b>	Secondary Focus	Linux, Bare metal, Free RTOS
	OS and RTOS Design Experience:	
<b>Embedded Application Development</b>	Primary Focus	streaming video systems, electro-mechanical stabilization systems, motor control, temperature control, network controllers
<b>Image Sensor Fusion</b>	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)
<b>Computer Vision</b>	Primary Focus	Experts at image compression and decompression. FPGA cores for H.264 and JPEG.
<b>Machine Learning</b>	No Focus	
	Framework Experience:	
	Network Model Experience:	