

Design Services Partner Profile



Xylon d.o.o. Company Overview

Date : 05/17/2018

www.logicbricks.com

Partner Details

Partner Tier: Premier
Headquarters Location: Fallerovo Setaliste 22,Zagreb,,Croatia
Xilinx Alliance Partner Since: 4/11/2000

Key Contact Info

Roko Soldat
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Regions Served

APAC, Africa, Central and South America, Eastern Europe and Russia, India, Japan, Middle East, North America Central, North America East, North America West, Western Europe

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 | Preferred |
| Yes | Time and Materials | |
| Both | Captive Resources at Partner or Customer Premises | |

Xilinx Design Tool Experience

| | | | |
|-----|--------|-----|---------|
| Yes | Vivado | Yes | SDSoC |
| Yes | HLx | No | SDAccel |

Industry Certifications Achieved

ISO 9001

Industry Certification Services Offered

Government Clearances

None

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Xylon d.o.o. Segment and Application Focus

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

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Xylon d.o.o. Segment and Application Focus (continued)

| | | | |
|-----------------|--------------------------------------|--|--|
| Secondary Focus | Test & Measurement | <ul style="list-style-type: none"> Secondary Focus Primary Focus Secondary Focus No Focus No Focus No Focus | <ul style="list-style-type: none"> Simulation / Emulation T & M Instrumentation Semiconductor Test Wired Communication Test Wireless Communications Test Other Test & Measurement |
| No Focus | Wired Comms & Networks | <ul style="list-style-type: none"> No Focus No Focus No Focus No Focus No Focus No Focus No Focus No 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 |
| No Focus | Wireless Comms & Networks | <ul style="list-style-type: none"> No Focus No Focus No Focus No Focus No 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 | UFDM certified, HW/SW partitioning, soft-CPU's and SoC/MPSoC CPU's, optimizations on size and timings, system modeling |
| RF and Analog Design | Secondary Focus | Power supplies, eventual ADCs, PHYs (i.e. MIPI), power supply monitors, video front-ends with operational amplifiers |
| FPGA Design and Integration | Primary Focus | Xylon works exclusively with Xilinx devices since 1995. We have used almost all FPGA and SoC families, starting from the XC3000. |
| FPGA Timing Closure | Primary Focus | Familiar with all Xilinx design guidelines for timing constraining, static timing analysis, and all techniques to achieve and timing goals. |
| FPGA Design Optimization | Primary Focus | Familiar with all techniques and coding styles (including partial reconfiguration) that assure the best optimization and timing closure results in different families. |
| Signal Integrity Design and Analysis | Secondary Focus | With Xilinx developed a proprietary Gbps multimedia serial link (VLINK) that works through an ordinary differential pair. Experienced with FPD-Link II, FPD-Link III, APIX, APIX2, Ethernet, MIPI, HiSpi, SATA, MOST.... |
| | Inhouse or Subcontracted: Inhouse Typical Serial Speed: 3 | |
| PCB Design & Layout | Primary Focus | Able to produce complex PCBs: BGA IC footprints, Gbps lines, up to 20 layers...Connections to different Mfg. Do PCB designs for customers within proof-of-concept and demo projects, as well as small volume Xylon HW products. |
| | Inhouse or Subcontracted: Inhouse | |
| Industrial and Mechanical Design | Secondary Focus | Xylon can design small mechanical products in order to complete in-house or customer developed electronics. |
| | Inhouse or Subcontracted: Both | |
| Industry Certification and Compliance Testing | Secondary Focus | Preparation of Xylon products for CE and FCC conformance testings. |
| | Inhouse or Subcontracted: Subcontracted | |
| Quality and Reliability Testing | Secondary Focus | Experienced in using Xilinx Soft Error Mitigation (SEM) IP core and some other Xilinx functional safety tools. |
| | Inhouse or Subcontracted: Inhouse | |
| Contract Manufacturing | Secondary Focus | Xylon has developed a number of different Xilinx-based development boards, FMC cards, camera modules and also can manufacture different add-on cards (mostly FMC) to support customer prototyping needs. Supported Xilinx TDPs, |
| | Inhouse or Subcontracted: Subcontracted Max Quantities Supported: 1000s | |

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| | | |
|--|--|---|
| <p>Digital Signal Processing</p> <p>Experience:</p> | <p>Primary Focus</p> <p>MicroBlaze, Zynq SoC and Zynq UltraScale MPSoC</p> | <p>Specialists for video and computer vision, DSP, algorithm development and optimizations for use in Xilinx devices.</p> |
| <p>Embedded Processors</p> <p>Experience:</p> | <p>Primary Focus</p> <p>PicoBlaze, MicroBlaze, Zynq, PowerPC, MIPS</p> | <p>Experienced with Xilinx soft-CPU's, PowerPC and ARM processing systems, as well as with many other embedded SoCs (Intel, MIPS, ARM...)</p> |
| <p>Embedded Porting / BSP Extension</p> <p>OS and RTOS Design Experience:</p> | <p>Secondary Focus</p> <p>Android, Linux, QNX, Windows Embedded</p> | <p>Xylon provides software drivers for logicBRICKS IP cores and can develop software applications for different operating systems.</p> |
| <p>Embedded Application Development</p> | <p>Primary Focus</p> | <p>Xylon is capable to develop embedded applications for WEC OS, Linux OS, no-OS or RTOS.</p> |
| <p>Image Sensor Fusion</p> <p>Homo or Heterogeneous:</p> <p>Sensor Types Design Experience:</p> | <p>Primary Focus</p> <p>Both</p> <p>Accelerometer, Compass, GPS / Position, Gyro, Inclinator, Other / Contact Partner, Thermal, Tilt, Video (SD, HD)</p> | <p>Complete automotive surround view system solution. Customers are major OEMs and Tier1s. Heterogeneous video/thermal sensor fusion demo. Heterogeneous video/IMU units (accelerometer, gyroscope and magnetometer).</p> |
| <p>Computer Vision</p> | <p>Primary Focus</p> | <p>Xylon provides solutions for face detection and tracking, emotions, gender and age estimators, driver monitoring systems, objects detections and recognition...</p> |
| <p>Machine Learning</p> <p>Framework Experience:</p> <p>Network Model Experience:</p> | <p>Primary Focus</p> <p>Caffe</p> <p>AlexNet, FCN, GoogLeNet, ResNet, SSD, SqueezeNet, VGG</p> | <p>Xylon is an active member of the reVISION ecosystem, and works with the complete stack.</p> |