

IMST GmbH Company Overview	v		Date : 02/07/2019
i			www.imst.de
Partner Details	I	Partner Tier:	Select Certified
	Headquarte	rs Location:	Carl-Friedrich-Gauss-Str. 2-4,Kamp- Lintfort,,Germany
>	(ilinx Alliance Pa	artner Since:	6/20/2018
Key Contact Info	Daniel Martin		
	martini@imst	i.de	
Regions Served	Western Euro	оре	
Supported Product Types	Yes	Design Services	No Embedded Products
	No	IP	No EDA Tools
	No	Boards	
Engineering Service Types	Yes	General Purp	
	No		upport of Products Sold ding to Contract
	Yes	Manufacturing	
Maximum	Service Scope:	Turnkey / full design	product
Engagement Models Supported	Yes	SOW-Based	Fixed Bid Projects Preferred
	Yes	Time and Ma	•
	At my location	Captive Res Customer Pr	ources at Partner or remises
Viliny Design Tool Experience	Yes	Vivado	No SDSoC
Xilinx Design Tool Experience	No	HLx	No SDAccel
	110		
Industry Certifications Achieved	ISO 9001		
Industry Certification Services Offered	I CE		
Government Clearances			

IMST GmbH Segment and Application Focus

Primary Focus	Defense/Aerospace	No Focus No Focus No Focus Primary Focus No Focus No Focus Primary Focus No Focus No Focus No Focus	Homeland Security Electronic Warfare ISR Space Missiles & Munitions Military Avionics Commercial Avionics SatComm Wireless Milcom Other A&D
No Focus	Audio, Video, Broadcast	No Focus No Focus No Focus No Focus No Focus No Focus No Focus No Focus No Focus	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	No Focus Secondary Focus Secondary Focus Secondary Focus Secondary Focus	Driver Assist - Camera Driver Assist Radar/LIDAR Driver Info/Infotainment Automated Driving Other Automotive
No Focus	Consumer	No Focus No Focus No Focus No Focus	Digital Display Drones Multifunction Printers Other Consumer
No Focus	Datacenter	No Focus No Focus No Focus	Storage Compute Networking
Secondary Focus	Industrial, Medical	No Focus Secondary Focus No Focus No Focus No Focus No Focus Primary Focus	Motor Control Industrial Networking Surveillance Machine Vision Medical Imaging Medical / Clinical Other ISM

IMST GmbH Segment and Application Focus (continued)

Primary Focus	Test & Measurement	Primary Focus No Focus No Focus Secondary Focus Primary Focus Secondary 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
Primary Focus	Wireless Comms & Networks	Primary Focus No Focus No Focus Primary Focus Secondary Focus	Baseband Wireless Backhaul Connectivity & Switching Radio Other Wireless

Design Competencies	D · -	
System Architecture	Primary Focus	Model based system design & simulation for complex radio communication and radar systems (Sysml)
RF and Analog Design	Primary Focus	System design, circuit design, layout & testing of analog and digital RF frontends including cross-domain optimization (AGC automatic gain control)
FPGA Design and Integration	Primary Focus	Many years of experience in design and integration of signal processing algorithms for communication and radar systems (e.g. modulation, synchronization, equalization, filter, Up and Down Converter, interleaver, channel codin
FPGA Timing Closure	Secondary Focus	Experience in timing optimization to reach timing constraints.
FPGA Design Optimization	Secondary Focus	Experience in Design optimization to reach resource constraints.
Signal Integrity Design and Analysis	Secondary Focus	Tools for measurement of signal integrity up to 6GHz are available in house. These tools are regularly used during the design process. Signal integrity simulation with own EM
Inhouse or Subcontracted: Typical Serial Speed:	Inhouse	simulation tool EMPIRE XPU or third party tools.
PCB Design & Layout	Primary Focus	Complete circuit design service for analog (RF) and digital circuits. Experience in RF circuit design up to 77 GHz carrier frequency, as well as in digital PCB design including multilayer PCBs with up 2000 components.
Inhouse or Subcontracted:	Inhouse	
Industrial and Mechanical Design	Secondary Focus	Experience in PCB integration into mechanical design including necessary tool chain.
Inhouse or Subcontracted:	Subcontracted	
Industry Certification and Compliance Testing	Primary Focus	In-House accredited Test Center with comprehensive testing and consulting services for electromagnetic compatibility (EMC) and radio spectrum matters (ERM), specific absorption rate (SAR), and LoRaWAN testing.
Inhouse or Subcontracted: Quality and Reliability	Inhouse Primary Focus	Radio performance testing in terms of bit error rates (BER),
Testing	i filliary FOCUS	packet error rates (PER), and interference analysis of single links and radio networks.
Inhouse or Subcontracted:	Inhouse	I am lasting experience in proceeding with second t
Contract Manufacturing	Secondary Focus	Long lasting experience in cooperating with manufactures. Several projects are realized per year. IMST works with different manufacturers to meet the respective customer requirements.
Inhouse or Subcontracted:	Subcontracted	
Max Quantities Supported:		
	Subcontracted Primary Focus	Algorithm design and simulation for radio communication and radar systems (synchronization, channel coding, (de-)modulation, equalization, interleaving, etc.)

Experience:	ARM V7 and V8 device family	processor, cross compilation, driver development, Zynq/ZynqMP architectures
Embedded Porting /	Secondary	Custom board development with DDR memory
BSP Extension	Focus	implementation and BSP adaptions including fine tuning of DDR read/write timings
OS and RTOS Design Experience:	FreeRTOS, Linux	, Ubuntu Linux
Embedded Application	Secondary Focus	Experience in embeded linux development to control and maintain radio and radar systems.
Development		-
Image Sensor Fusion	No Focus	
Homo or Heterogeneous:	None	
Sensor Types Design Experience:		
Computer Vision	No Focus	
Machine Learning	No Focus	
Framework Experience:		
Network Model Experience:		