

स्वदेशी === CHALLENGE

LIST OF 100 SEMI-FINALISTS

1 2 3 4 5	7956363 7962543 8156663	NVIK LOGIC SYSTEM Tushar Bhattacharyya	"NavIC receiver" using "Swadeshi Microprocessor" TirelQ – Smart Health Solution for Your Tyre	Team Team	Start-ups Start-ups	SHAKTI Vajra (C64-A100) SHAKTI Pinaka (E32-A35)	Artix7-100T
4 5	8156663			ream	Start ups	SHAKII FIIIdka (E32-A33)	Artix7-35T
6		Sangeeta Dnyaneshwar Palekar	Design and development of SpectroProcessor for Biomedical Applications	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
6	8254523	Gopinathan Subramanian	Cinnovator's Smart Vehicle System (SVS)	Team	Start-ups	SHAKTI Vajra (C64-A100)	Artix7-100T
	8294023	Jayakrishnan A L	FM RDS Utilities	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
	8781303	Jeyaram	DESIGN AND DEVELOPMENT OF SMART INDOOR AIR QUALITY MONITOR —"SMART IAQM"	Team	Educational Institutes	SHAKTIPinaka (E32-A35)	Artix7-35T
7	8782153	Akhil Mohan Sreehari Krishnakumar	AutoMagic	Individual	Start-ups Educational Institutes	VEGA AS1061 VEGA AS1061	Artix7-100T Artix7-100T
9	8782603 8789423	Pranav Srinivas M	Electronic Scribe for Visually Impaired Project UWBquitous – enabling Ultra-Wide Band everywhere	Team Individual	Other	SHAKTI Vajra (C64-A100)	Artix7-1001 Artix7-100T
10	8793013	Vignesh Durai	BLDC Controller	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
11	8795673 8799113	Aravintha Prasath V Sharan Srinivas J	Seizure Alert System Software-Defined Ground Penetrating Radar	Team Team	Educational Institutes Other	SHAKTI Vajra (C64-A100) SHAKTI Vajra (C64-A100)	Artix7-100T Artix7-100T
13	8799673	aravind hanumanthaiah	Vital Signs Monitor based on Internet of Medical Things	Team	Other	SHAKTI Parashu (E32-A100)	Artix7-100T
14	8800343	Parth Sharma	INDUINO - Indigenous Hindi-Supported Modular IoT Development Platform	Team	Start-ups	VEGA ET1031	Artix7-35T
15	8801233	Prasad Phadke	Electrochemical Workstation for Scientific Research and Teaching	Individual	Other	VEGA ET1031	Artix7-35T
16 17	8801853 8802223	Ani Sam Varghese Sakshat Rao	Fault Tolerant Reliable Integrated Avionics System for Drones Smart Road Traffic Monitoring and Control System	Team Team	Start-ups Educational Institutes	VEGA AS1061 VEGA AS1061	Artix7-100T Artix7-100T
18	8807423	Arun Ashok	NAVIC-GNSS baseband processor SoC for Emerging Navigation	Team	Other	SHAKTI Parashu (E32-A100)	Artix7-100T
19	8807633	Dipankar Ghosh	Solutions DIDA: Digital Information for Diagnostics and Analytics as applied	Team	Start-ups	SHAKTI Parashu (E32-A100)	Artix7-100T
20			to electrical and electronic circuits of automobile vehicles IoT and AI-Enabled Smart Farm Automation (Hydroponics and		•		Artix7-35T
	8807963	Subhajit Sinha	Vertical Farming) IoT oriented Battery Management System for real-time and	Team	Start-ups	SHAKTI Pinaka (E32-A35)	1 11
21	8808013	Rashi Dutt Robin Kanattu Thomas	accurate Battery State and Health Monitoring targeting renewable energy applications.	Team	Educational Institutes	SHAKTI Vajra (C64-A100) VEGA AS1031	Artix7-100T Artix7-35T
23	8808293 8808603	ANKUSH GHOSH	Rehabilitation Exosuit with Motion transferring Mechanism MARIA (Multiple Applications Robotic Intelligent Assistant) -A Service cum Security Robot	Individual	Start-ups Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
24	8808803	Athul E M	IoT Based Grain Storage Monitoring and Al based Grain Spoilage Control System	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
25	8810433	vishnu r nair	Real-Time Predictive Condition Monitoring System for Ball Mills Used in Cement Manufacturing Industries.	Individual	Other	SHAKTI Vajra (C64-A100)	Artix7-100T
26	8812453	Rudri Pandya	IoT based STP with Remote Water Quality Monitoring Using Data Science and Machine Learning with Wireless Communication Methods between nearby Nodes.	Team	Educational Institutes	VEGA AS1061	Artix7-100T
27	8812513	Satyendra Gupta	An IoT device for rapid in-situ agricultural soil testing	Team	Start-ups	VEGA ET1031	Artix7-35T
28	8813713	Krunal Rajendra Bhongade	Automatic Tracking System for Concentrated Reflectors and	Team	Other	VEGA ET1031	Artix7-35T
29	8814053	Bonfarmo	Photovoltaic Array Sugarcane Bud/Stalk Processing Station	Team	Start-ups	SHAKTI Vajra (C64-A100)	Artix7-100T
30	8815523	Prabhat Thakur	Multirole UAV for surveillance and small cargo delivery	Individual	Other	SHAKTI Pinaka (E32-A35)	Artix7-35T
31 32	8815623 8816553	Dishant Shah Chirag Chinvar	FPGA accelerated remote vital stats monitoring device Fleet Monitoring System	Team Team	Educational Institutes Educational Institutes	SHAKTI Vajra (C64-A100) VEGA AS1061	Artix7-100T Artix7-100T
33	8817383	KEERTHIPRAKASAM J	"DOCTOR'S APPRENTICE"	Team	Start-ups	VEGA ET1031	Artix7-35T
34	8817623	Ayush Bhardwaj	IOT BASED SMART GLOVES WHEELCHAIR	Team	Educational Institutes	VEGA AS1061	Artix7-100T
35	8817933	Nair Siddharth Shivakumar	A Smart Footwear & Insole System for Preventing Diabetic Foot Ulcer & Support Monitoring Progression of Diabetic Neuropathy	Team	Start-ups	VEGA ET1031	Artix7-35T
36	8818333	Dr Manish Gupte	Audio Compression Algorithms and Hardware for Lecture Compressing and Audio Conference	Individual	Other	VEGA AS4161	Artix7-100T
37	8820113	Yeddula Sandeep Kumar Reddy	"Sensor fusion-based drivability and vehicle performance enhancer"	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
38	8820433	Vemula Jahnavi	TECHNO AGRI LAND-MOVER (FOR MICRO AND SMALL FARMERS' FIELD OPERATIONS) High resolution Multichannel Analyzer for nuclear spectroscopy	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
39	8820933	Lekshmi Ajesh Kaimal	applications	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
40 41	8831193	Karthik K Bhat	Autonomous Robot Controller (ARC)	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
41	8836893 8838983	Ajit Singh Toms Jiji Varghese	Antardrasya – an industrial automation solution Emerging Technologies	Team Team	Other Educational Institutes	SHAKTI Vajra (C64-A100) SHAKTI Pinaka (E32-A35)	Artix7-100T Artix7-35T
43	8839113	Daksh Shende	IoT/IoE based Technology - Use IoT/IoE technology to implement SMART BUILDING technology	Team	Educational Institutes	VEGA ET1031	Artix7-35T
44 45	8840003 8840933	Sreekanth Nayak Manish Harishchandra Tinkhede	Affordable and accessible Healthcare solutions "Artificial Intelligent (AI) Gloves for Deaf and Dumb Peoples"	Individual Team	Other Educational Institutes	VEGA ET1031 SHAKTI Vajra (C64-A100)	Artix7-35T Artix7-100T
46	8841823	Darshan C Ganji	Bring Deep learning and Computer vision capabilities to Shakti Vajra SoC by adding Neural processing engine, MIPI-CSI2 interface and Video processing pipeline.	Team	Start-ups	SHAKTI Vajra (C64-A100)	Digilent – Nexys Video Series - Artix®-7 XC7A200T
47	8842153	Tejas S Shah	Non-invasive Measurement of Blood Sugar (NIMBuS)	Team	Other	SHAKTI Parashu (E32-A100)	Artix7-100T
48	8842733	Ashish Bansal	Energy Beamforming for Wireless Information and Power Transfer using shakti processor for IoT Application	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
49	8843073	Shubham Kamthania	Transfer using shakti processor for IoT Application Sarvam-Live a portable live streaming device	Team	Start-ups	SHAKTI Vajra (C64-A100)	Artix7-100T
50	8843163	Akash Babu	Micro Level Power Management System using IoT & Machine	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
51	8846483	Shylesh Sinivasan	Learning BATTER-O-MATIC	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	
52	8846533	Amogha T S	Agrover	Team	Educational Institutes	VEGA AS1061	Artix100T
53	8847293	Kishore B	IoT/ IoE based technologies: GPS Based Public Address & Passenger Information System Industrial Automation using smart Automatic Storage and	Individual	Start-ups	SHAKTI Vajra (C64-A100)	Artix7-100T
54	8849173	Aditya Nirmale	Retrieval System Halcyon: An Indigenous Secure On-board Computing Environment	Team	Educational Institutes	SHAKTI Pinaka (E32-A35)	Artix7-35T
55	8851863 8851943	Nikhilesh Singh Kumaraswamy V	for Unmanned Aerial Vehicles Implementing Industrial IoT and Industry 4.0 solutions faster and	Team	Other Start-ups	Shakti Vajra (C64-A100) SHAKTI Parashu (E32-A100)	Artix7-100T Artix7-100T
57	8851943 8852053	Bharatdeep Hazarika	affordably using a universal data acquisition solution. SMART Plug N' Play Device for Electric Vehicles	Team	Other	VEGA ET1031	Artix7-1001
58	8852543 8852543	Parivesh Choudhary	UAV Object Delivery	Team	Educational Institutes	VEGA ET1031 VEGA AS1061	Artix7-351 Artix7-100T
59	8852803	Dr Suresh Dahiya	Shakti microprocessor based IoT devices and infrastructure for e- vehicle charging stations	Individual	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
60	8854473	Harpreet Singh	: HomeCyte- At home solution for monitoring infections and internal bleeding in chemotherapy patients	Team	Other	SHAKTI Vajra (C64-A100)	Xilinx Kintex-7 FPGA KC705 Evaluation Kit along with AD-FMCOMMS1-EBZ FMC Board
61	8856173	Vaishnavi Patil	: IOT Based Automated Medicine Dispensing Machine	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
62	8856373	Venkat Bokka	IoT-based low-cost 12-lead precision ECG instrument	Team	Other	VEGA ET1031	Artix7-35T
63	8856743	HARITA Uppal	Automatic Water Quality Monitoring for Consumers and Enterprises.	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
64	8857483	Praveen R	Super Automated Wet Grinder	Team	Educational Institutes	VEGA ET1031	Artix7-35T
			A Industry 4.0 Platform with integrated AI & Industrial IOT,				
65	8857493	Ankur Jain	Solving the problem of Authentication of Quality, Quantity & Traceability in Distributed Food, Agri & Farm Manufacturing & Supply Chain	Individual	Start-ups	VEGA AS1061	Arty A7-100T











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SI No	Registration Number	Name	Project Title	Category	Organization Type	Processor Type	FPGA Board Type
66	8858213	Khyati Kiyawat	Emergency Distress Response System for Automobiles	Team	Other	SHAKTI Pinaka (E32-A35)	Artix7-35T
	0030213	,,	Predictive and adaptive learning methods networked with IoT				
			devices which are developed for non-invasive access to				
67	8858263	Sidhant Dhall	appliances targeting energy analytics-savings and water	Team	Start-ups	VEGA AS1061	Arty A7-100T
			conservation in a conventional home.				
			Intelligent Multi-Sensor Street Light System for Smart City				
68	8859083	Vishvajitsinh Dharmendrasinh Bakarola	Applications	Team	Other	SHAKTI Vajra (C64-A100)	Artix7-100T
69	8859673	Gopal R Raut	Semi-Autonomous Drones for Terrain Monitoring and	Team	Educational Institutes	VEGA AS1061	Artix7-100T
70		Common total	Identification of Terrain Modifying Actors	Team	Educational Institutes	VEGA FT1031	A adv. 7 OFT
	8859693	Sanyam Jain	SPHM "Smart Portable Health Monitoring" Device				Artix7-35T
71	8859923	Asma Parveen I Siddavatam	Calibration System for Nuclear Spectroscopy Applications	Individual	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
72	8860793	Saroja V Siddamal	IoT based Smart Power Monitoring and Controlling Plug	Team	Educational Institutes	VEGA ET1031	Artix7-35T
73	8861083	Paarth Nilesh Arkadi	Swadeshi Battery Management System	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
74	8861183	Mahesh Kumar Prajapat	Night Patrolling Robot	Team	Start-ups	VEGA AS1061	Artix7-100T
75	8861293	Prabin Kumar Das	A System and Method for Remote Parking Slots Information	Team	Educational Institutes	VEGA ET1031	Artix7-35T
/3	0001293	Frabili Kulliai Das	Access.	ream	Educational institutes	VEGA 211031	AI (IX7-331
76	8861333	Mayank Bumb	Anti-Theft GeoFencing based Locking system(ATGLS)	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
77	8861363	Subhiksha Raj	Waste management	Team	Educational Institutes	SHAKTIPinaka (E32-A35)	Artix7-35T
70		MIDTI HENDANIT WANIALE	SAND FILTER AUTOMATION WITH AUTO FERTILIZING SYSTEM	to all of done !	Educational traffic:	CHARTING TO A MACC	A +1-7 400T
78	8861513	KIRTI HEMANT WANJALE	FOR IRIGATION USING INTERNET OF THINGS	Individual	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
79	8861913	Manasi Mishra	IoT based Industry Management system	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
80	8862133	Monish Mehmi	IMPLEMENTATION OF SHAKTI PROCESSOR IN CUBE SATELLITE.	Team	Other	SHAKTI Pinaka (E32-A35)	Artix7-35T
			Modernization Technology based Drag and Drop application for				
81	8862203	Raja J	universal Product Design (IoT/IoE Based Technology)	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
82	0000000	Shagnik Pal		Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
83	8862373	PRAVEEN MATHEW	DRONE CONTROLLER USING SHAKTI	Team	Start-ups	VEGA AS1061	Artix7-1001
	8863213		Edge Computing Module for Image Processing				
84	8863433	Samhita Varambally B	Edge AI based Agricultural Produce Segregation Chip	Team	Other	SHAKTI Vajra (C64-A100)	Artix7-100T
85	8863803	Shwetha S	Wireless Maternal Health Monitoring	Team	Educational Institutes	SHAKTI Parashu (E32-A100)	Artix7-100T
86	8864623	Arnab Kumar Barman	A Multifunctional Biomimetic Quadruped Robot for Climbing and	Team	Start-ups	VEGA ET1031	Artix7-35T
	0004025		Walking on Variable Terrain		· ·		
87	8865523	Ogireddy Naga Ramya	SMART IRRIGATION USING FPGA	Team	Educational Institutes	SHAKTI Pinaka (E32-A35)	Artix7-35T
88	8865663	Tamal Mandal	Intelligent Traffic Management System	Team	Educational Institutes	SHAKTI Vajra (C64-A100)	Artix7-100T
89	8866333	vishal natani	IoT Platform for Solar Plant Management and Control	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
			ELAS Point Care Wearable IOT with General-Respiratory				
90	8866393	Harikrishnan R	Augmentation Machine (G-RAM-Mask) & IWatch: Intelligent	Team	Start-ups	VEGA AS1061	Artix7-100T
			Wearable Heathcare, IoT/ IoE based technologies				
				_			
91	8866873	Ankit Chouhan	Next-generation AI Smart Meter with Energy Intelligence at Edge	Team	Start-ups	SHAKTI Vajra (C64-A100)	Artix7-100T
			A product that provides freedom from being constrained by IV				
92	8878623	Suraj Rajan	line in Hospital and can also be extended to providing treatment	Team	Start-ups	VEGA ET1031	Artix7-35T
		,,	at home.			120.12.202	
93	8896933	Prateek Chopra	Digitisation of Water Supply Infrastructure	Individual	Start-ups	Vega ET1031	ARTIX-35T
	0030333	Traceck chopra	Signisation of water supply infrastructure	marriadal	Start ups	*C50 2.12032	ANTIN 331
94	8899543	soumitra dey	SWADESHI CUBE SATELLITE (CubeSat) - DESIGN & DEVELOPMENT	Individual	Other	SHAKTI Parashu (E32-A100)	Artix7-100T
54	0033343	southict a dey	OF 1U - CubeSatellite (LoRa based IOT) Callsign : SHAKTISAT-1	iliulviduai	Other	STIAKTI Farasila (ESZ-A100)	AI (IX7-1001
95	8912813	Nettimi Satya Sai Srinivas	A portable healthcare monitoring system for automatic voice	Team	Educational Institutes	VEGA AS1061	Artix-7 100T
		· · · · · · · · · · · · · · · · · · ·	pathology detection from speech signals.				
96	8912903	sumant nashik	OLFACT 6T-Automated Rapid Double Blind Smell Test for Large	Team	Start-ups	VEGA ET1031	Artix7-35T
			Scale Testing.	-			
97	8915783	Srushti Mehatkar	Camera Traps for Wildlife Monitoring and Surveillance in remote	Team	Start-ups	SHAKTI Pinaka (E32-A35)	Artix7-35T
٠,	0313703	Jidditi mendendi	areas with Ad Hoc Network	· cuiii	Start ups		711177 331
98	8917763	Dhilleshwar Rao	Internet-Based Remote Control for Process Automation by Using	Team	Other	VEGA AS1061	Artix7-100T
30	891//63	Dilliezilwai vao	VEGA/Shakti Microprocessor Based Transceivers	ream	Otilei	AEGW W31001	AI (IX/-1001
99	8918973	ROHIT RAPHAEL	IoT based Utility Management System	Team	Educational Institutes	SHAKTI Pinaka (E32-A35)	Artix7-35T
			Didactic training system for Shakti/Vega for educational market	Team	Start-ups	SHAKTI Parashu (E32-A100)	Artix7-100T
100	8919853	Mr. Velnati Ravi					







