Aravinth Panch

An interdisciplinary expert with 17+ years of global experience in science, engineering, arts and sustainability, with the core expertise in research, development and production of electro-mechanical embedded systems and digital products.

- EdTech, AgriTech, HealthTech, BioTech, NanoTech, GreenTech, BlueTech -

1 Personal

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DATE:	23rd June 2020

2 Experience

2.1 Work

APR 2020 JUN 2019	Co-Founder | Chief Technology Officer *Watergenics UG, Berlin, Germany*
JUN 2019 AUG 2017	Head Of Embedded Systems Engineering *Next Big Thing AG, Berlin, Germany*
JUL 2017 APR 2016	Lead Embedded Systems Engineer *Senic GmbH, Berlin, Germany*
MAR 2016 OCT 2015	Co-Founder | Chief Technology Officer *Macsxperts, Bangalore, India*
SEP 2015 AUG 2015	Embedded Systems Engineer *SmartB Energy Management GmbH, Berlin, Germany*
MAY 2015 OCT 2014	Systems Architect *The Jodel Venture GmbH, Berlin, Germany*
SEP 2014 JAN 2013	Embedded Systems Engineer *Yetu AG, Berlin, Germany*
JUL 2011 APR 2011	Senior Systems Engineer *Infosys LTD, Mysore, India Systems Engineer*
MAR 2011 NOV 2009	Co-Founder | Chief Technology Officer *Academia Grandiosa Medicinae, New Delhi, India*

OCT 2009	Systems Engineer
OCT 2008	*Tata Consultancy Services, New Delhi, India*
CURRENT	Founder | Interdisciplinary Expert
MAY 2003	*araCreate UG, Global*

2.2 Skills

HARDWARE	Design of Schematics, Footprints and Digital & Analog Circuits
EMBEDDED	Development of Baremetal Firmware, IoT & Embedded Linux
ROBOTICS	Development of AI, Computer Vision & Motion Control Systems
MECHANICS	Design of Manufacturable Electro-Mechanical Systems
FABRICATION	Additive & Subtractive Manufacturing of Wood, Plastic & Metal
SOFTWARE	Development of Desktop, Web, Mobile & Cloud Applications
DEVOPS	Deployment of Build, Test, Monitoring & Runtime Infrastructure
MULTIMEDIA	Design of Graphics & Audio-Visual-Haptic Art Installations
ENTREPRENEURSHIP	Business & Financial Modeling, Investment & Recruitment
SOCIAL	Community Building, Mentoring, Empowerment & Sustainability

3 Education

3.1 Academics

2015	Master of Science in Electrical Engineering
2011	*Technical University of Berlin, Berlin, Germany*
2008	Bachelor of Technology in Electronics and Communication Engineering
2004	*SRM University, Chennai, India*
2004	Associate's Degree in Multimedia
2003	*ARENA Multimedia, Chennai, India*

3.2 Research

2015	Humanoid Robotics
2014	*DAI LABOR - Distributed Artificial Intelligence Laboratory, Berlin, Germany*
2014	Biometrics and Deep Security
	T-LABS - Deutsche Telekom Innovation Laboratories, Berlin, Germany
2014	Autonomous Vehicle
2013	*DCAITI - Daimler Center For Automotive Information Technology Innovations, Berlin, Germany*
2013	Wireless Mesh Technologies
	TKN - Telecommunication Networks Group, Berlin, Germany

3.3   Certifications

2012 | TestDAF - Test of German as Foreign Language. *Score: 16/20*
2010 | IELTS - International English Language Testing System. *Score: 7.5/9*
2010 | EC-Council - Ethical Hacking
2009 | CCNA - Cisco Certified Networking Administration

4   Additionals

4.1   Products | Projects

2020 | Corona Detective | SARS-CoV-2 Rapid Test Kit, https://projects.aravinth.info/covid
2020 | CoronaBot | ChatBot in Tamil, https://corona.dreamspace.academy
2020 | Impedance Spectroscopy For Nitrate Measurement, https://watergenics.tech
2019 | araBeat | Electrocardiogram (ECG) Sonification, https://projects.aravinth.info/arabeat
2019 | araMetrics | Impact Measurement System, https://projects.aravinth.info/arametrics
2019 | M-Gate | M-Bus Sub-Metering Gateway, https://metr.systems
2019 | araCloud | Cloud Deployment DevOps, https://projects.aravinth.info/aracloud
2018 | mgateOS | Embedded Linux, https://projects.aravinth.info/mgateos
2017 | Senic Hub | Smart Home Gateway, https://senic.com
2017 | senicOS | Embedded Linux, https://github.com/getsenic
2016 | Nuimo | Smart Controller, https://senic.com/nuimo-control
2016 | araBot | Digital Fabrication Machine, https://projects.aravinth.info/arabot
2016 | Senic | WiFi & BLE Link Quality Benchmarking, https://projects.aravinth.info/wifi
2015 | SmartB | Non-Intrusive Load Monitoring Gateway, https://smartb.de
2015 | Swan Lake Music Buzzer, https://projects.aravinth.info/swan
2015 | VIVID | Heart Of The City, https://projects.aravinth.info/heart
2015 | Macsxperts | Hydroponics Fertigation System, https://projects.aravinth.info/macsxperts
2015 | Home DNS | OpenHAB Home Automation, https://projects.aravinth.info/dns
2014 | Jodel | Geofenced Anonymous Messaging Platform, https://jodel.com
2014 | Gesture Recognition For Human Robot Interaction, https://projects.aravinth.info/hri
2014 | Confusion | Touch Sensitive System, https://projects.aravinth.info/confusion
2014 | TKN | Smart Green House, https://projects.aravinth.info/green
2014 | Yetu | Telepresence Robot, https://projects.aravinth.info/cam
2014 | Spectrum | Spectral Acoustic Emitter, https://projects.aravinth.info/spectral
2013 | StreeMuFi | Street Musicians Platform, https://projects.aravinth.info/streemufi
2013 | TKN | RSSI Based Indoor localization, https://projects.aravinth.info/rssi
2013 | Yetu | Smart Home Gateway, https://github.com/yetu
2013 | DNA Recognition For Biometric Identification, https://projects.aravinth.info/biometric
2007 | Steganography | Message Concealment, https://projects.aravinth.info/steg

2020 | araCreate | Company Website, https://araCreate.com
2019 | Watergenics | Company Website, https://watergenics.tech
2019 | HSB | Company Website, https://hardwarestartups.berlin
2018 | DreamSpace | Company Website, https://dreamspace.academy
2015 | Macsxperts | Company Website, http://macsxperts.com
2011 | KIMS | Company Website, http://kims-study.com
2009 | AGM | Company Website, http://studyatagm.in
2008 | Aravinth | Personal Website, https://aravinth.info

2020 | Dentaria | Dental Health Management Tool
2013 | Autonomous Vehicle | Cooperative Adaptive Cruise Control for Daimler Mercedes

2013	Shanti CRM	Marketing Campaign Management Tool
2011	Petroleum Vessels & Tanks Management System For British Petroleum
2011	Aircraft Maintenance Records System For Boeing Corporation
2010	Academics LMU	E-Learning Management System For Liaoning Medical University
2009	GSM DTMF Controlled Two Axes Robot For Fire And Metal Detection
2009	Telecom Call Data Records System For BSNL
2007	Purvottar Consultants	Company Branding
2006	BrokerForParts	Electronic Parts Supply Chain Management Tool
2003	Interactive Anatomy Learning Tool For Moscow Medical Academy

4.2 Consulting | Advisory | Mentoring | Community Building Experience

APR 2019 - CURRENT	Ambassador	Tech Diplomacy, *AsiaBerlin By Berlin Senate, Berlin & Asia-Pacific*
AUG 2018 - CURRENT	Co-Founder	Director Of Innovation, *DreamSpace Academy, Batticaloa, Sri Lanka*
AUG 2015 - CURRENT	Co-Founder	Partnerships, *Zerosec Solutions, Coimbatore, India*
FEB 2014 - CURRENT	Founding Member	Partnerships, *Greenbuzz Berlin e.V., Berlin, Germany*
APR 2020 - CURRENT	Partner	Engineering & Manufacturing, *BatchOne GmbH, München, Germany*
MAY 2018 - CURRENT	Advisory	International Partnerships, *MotionLab ML Gmbh, Berlin, Germany*
JUN 2020 - CURRENT	Advisory	Biotech & Nanotech, *Sri Lanka Institute Of Nanotechnology, Sri Lanka*
JUN 2020 - CURRENT	Advisory	Nanotech, *Advanced Material Pandemic Taskforce, USA*
NOV 2019 - CURRENT	Advisory	Engineering & Manufacturing, *Motorskins, Berlin, Germany*
SEP 2018 - JUN 2019	Advisory	Investment & Manufacturing, *Assistr DHS GmbH, Berlin, Germany*
SEP 2017 - JUN 2019	Advisory	Engineering & Manufacturing, *Metr BMS GmbH, Berlin, Germany*
DEC 2018 - JUN 2019	Advisory	Corporate Partnerships, *Carion Mobility GmbH, Berlin, Germany*
MAR 2020 - CURRENT	Trainer	Access 2 Perspectives (A2P), *Global South*
APR 2020 - CURRENT	Mentor	Global South Coordinator, *Global Talent Mentoring, Regensburg, Germany*
SEP 2018 - CURRENT	Mentor	Innovation Network For Advanced Materials (INAM), *Berlin, Germany*
APR 2020 - CURRENT	Mentor	The Startup Club, *Milan, Italy*
FEB 2020 - CURRENT	Mentor	Imagine2030 Mobility Accelerator, *Berlin, Germany*
MAR 2020 - CURRENT	Mentor	Vision Health Pioneers (VHP), *Berlin, Germany*
JAN 2020 - CURRENT	Mentor	Berlin Startup School, *Berlin, Germany*
OCT 2019 - CURRENT	Mentor	Founder Institute (FI), *Berlin, Germany*
MAR 2019 - CURRENT	Mentor	Canary Islands Hub, *Gran Canaria, Spain*
APR 2019 - CURRENT	Mentor	Decelera, *Menorca, Spain*
NOV 2019 - CURRENT	Mentor	WLounge, *Berlin, Germany*
SEP 2016 - DEC 2016	Mentor	Singa Deutschland - Refugee Integration, *Berlin, Germany*
MAY 2019 - CURRENT	Community Maker	Event Organizer, *Global Innovation Gathering (GIG)*
MAR 2020 - CURRENT	Community Scientist	Event Organizer, *Just One Giant Lab (JOGL)*
OCT 2014 - CURRENT	Community Scientist	Event Organizer, *Science HackDay Berlin (SHDB)*
MAY 2015 - CURRENT	Community Maker, *Maker Faire Berlin*
SEP 2015 - SEP 2019	Community Artist	Event Organizer, *Spektrum Berlin*
OCT 2014 - AUG 2015	Community Scientist, *DAINAMITE - Humanoid Robot Robocup SPL Team*
MAR 2019 - CURRENT	Event Organizer, *AsiaBerlin Summit (ABS)*
MAR 2020 - APR 2020	Event Organizer, *Datanatives	Hack Corona*

4.3 Talks, Workshops & Exhibitions

2020	Talk	Open Science Responses To COVID-19, *Enpact, Germany*
2020	Talk	Innovation Ecosystems Around The World, *Technical College Batticaloa, Sri Lanka*
2020	Talk	Innovation Ecosystems Around The World, *Dreamspace Academy, Sri Lanka*

2020	Talk | Innovation Thinking, *ESOFT, Batticaloa, Sri Lanka*
2020	Workshop | Emerging Startup Ecosystem Of Uzbekistan, *PDL, Enpact, Germany*
2019	Talk | Global Innovation Gathering, *Chaos Communication Congress, 36C3, Germany*
2019	Workshop | Sustainable Making, *Gig Dots 2019, Global Innovation Gathering, Kenya*
2019	Talk | Data, Sovereignty, Democracy, *United Nations, IGF 2019, Germany*
2019	Keynote | Co-Creating The Dreams With PBL, *Relogia 2019, Bulgaria*
2019	Workshop | Company Culture For Social Responsibility, *WLounge, Germany*
2019	Talk | Breaking The Wall Of Subject Based Learning, *Falling Walls 2019, Germany*
2019	Talk | Hardware: Starting Up The Hard Way, *Founder Institute Berlin, Germany*
2019	Talk | Advanced Prototyping, *Openhpi, School Of Design Thinking, Germany*
2019	Talk | The Fuck Ups To The Good Times, *The Good Times 2.0, Indonesia*
2019	Talk | Motionlab Berlin - The Innovation Hub, *The Good Times 2.0, Indonesia*
2019	Panel | 6Th Green And Innovative Economy, *Startup Nation Thailand 2019, Thailand*
2019	Exhibit | araBeat + araBot, *Maker Faire Berlin 2019, Germany*
2019	Keynote | Connecting Asian Origin, *Asia Pacific Week Berlin 2019, Germany*
2019	Talk | Advanced Material Startups Ecosystem, *Asia Pacific Week Berlin 2019, Germany*
2019	Talk | Introduction To Community Innovations, *Dreamspace Academy, Sri Lanka*
2019	Talk | Motionlab - The Innovation Hub, *Canary Islands Hub, Gran Ganaria*
2019	Exhibit | arabeat : Electrocardiogram Sonification, *Ackerberg MoZaic East, USA*
2019	Talk | Introduction To Berlin Hardware Ecosystem, *Shenzhen Meets Berlin, Germany*
2018	Keynote | Motionlab - The Innovation Hub, *Innovation Summit 2018, China*
2018	Talk | Robotics & IoT Innovations, *Broadband World Forum 2018, Germany*
2018	Exhibit | arabeat : Electrocardiogram Sonification, *GOSH 2018, China*
2018	Talk | Over-The-Air Update : IoT, *Ethereum Camp 2018, Germany*
2017	Talk | Learn Bluetooth Low Energy With Nuimo, *Techjam 2017, Germany*
2015	Exhibit | Hydroponics Kitchen Vertical Farm, *Krishi Mela 2015, India*
2015	Exhibit | Human ♥ Robot, *Spektrum, Germany*
2015	Exhibit | Gesture Recognition For Human-Robot Interaction, *DAI Labor, Germany*
2015	Exhibit | Heart Of The City, *Vivid Light Festival 2015, Australia*

4.4   Languages

TAMIL	Native proficiency
ENGLISH	Bilingual proficiency
GERMAN	Professional proficiency
HINDI & URDU & MALAYALAM	Limited working proficiency
RUSSIAN	Elementary proficiency

4.5   Awards

2019	Falling Walls Science Engagement Of The Year
2011	Erasmus Mundus Scholarship Of 48,000€

Summary

   Aravinth is an interdisciplinary expert with 17+ years of global experience in science, engineering, arts and sustainability, with the core expertise in research, development and production of electro-mechanical embedded systems and digital products.

As an engineer, he worked for 2 big corporates in the telecom sector and worked for 8 tech startups in the sector of education, smart home, media, agriculture, energy, healthcare & water, in Asia & Europe, where one of the hardware products was sold in 30K+ quantities and one of the software products reached 10M+ users.

As an entrepreneur, he co-founded 7 organisations in the sector of education, sustainability, agriculture, consulting & engineering services, in Asia & Europe.

As a scientist, he researched at 4 academic research institutions in the field of wireless technologies, autonomous vehicles, biometrics, humanoid robotics & machine learning, in Germany.

As an educator, he trained several young innovators and mentored 120+ deep tech startups in the domain of advanced materials, healthcare, agriculture, aerospace, energy, automotive & biotechnology, globally.

As an advisor, he is affiliated with 23 organisations and supported several individuals, startups, accelerators, incubators, innovation hubs, corporates, investors, manufacturers, research institutions, universities, government initiatives, art galleries and social enterprises, in more than 50 countries.

As an artist, he has co-created several new media art installations for temporary and permanent exhibitions, which attracted more than 1.5 million visitors, in Germany, Australia & USA.

As a community builder, he co-created and has been curating several communities for startups, sustainability, education & art, in Asia, Europe & Africa.