## 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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WEBSITE: https://aravinth.info

LINKEDIN: https://www.linkedin.com/in/AravinthPanch

GITHUB: https://github.com/AravinthPanch

DATE: 26th August 2020

## 2 Experience

#### 2.1 Work

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

	Systems Engineer
Ост 2008	Tata Consultancy Services, New Delhi, India
	,
	Founder   Interdisciplinary Expert   Consultant
MAY 2003	araCreate UG, Global

### 2.2 Skills

#### 2.2.1 Technical

HARDWARE	Design of Schematics, Footprints and Digital & Analog Circuits
EMBEDDED	Development of Baremetal Firmware, IoT & Embedded Linux
ROBOTICS	Development of AI, ML, Computer Vision & Motion Control Systems
MECHANICS	Design of Manufacturable Electro-Mechanical Systems
FABRICATION	Additive & Subtractive Manufacturing of Wood, Plastic & Metal
MANUFACTURING	Design for Manufacturing, Assembly, Certification & Cost
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
DEEP TECH	Sensor Design, BioTech, Bioinformatics & NanoTech (Graphene)

#### 2.2.2 Soft

Entrepreneurship	Business & Financial Modeling, Investment, Recruitment
	Performance Marketing, Networking & Company Culture
LEADERSHIP	Design Thinking, Product Development Lifecycle, Agile Project
	& Team Management (SCRUM & KANBAN), Team Building,
	Goal-setting, Coaching (NLP) & Expectation Management
SOCIAL	Community Building, Mentoring, Empowerment & Sustainability

## 3 Education

### 3.1 Academics

2015	3 3
2011	Technical University of Berlin, Berlin, Germany
2008	Bachelor of Technology in Electronics and Communication Engineering
2004	SRM University, Chennai, India
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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
	Autonomous Vehicle 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 Nice to have

## 4.1 Languages

TAMIL	Native proficiency
English	Bilingual proficiency
German	Professional proficiency
HINDI & URDU & MALAYALAM	Limited working proficiency
	Elementary proficiency

#### 4.2 Awards

2020	Global Community Bio Fellowship 2020, MIT
2019	The Winner of Falling Walls Science Engage 2019
2011	Frasmus Mundus Scholarship Of 48.000€

## 4.3 Consulting | Advisory | Mentoring | Community Building Experience

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 2019 - CURRENT	Ambassador   Tech Diplomacy, AsiaBerlin By Berlin Senate, Berlin & Asia-Pacific
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

Trainer   Access 2 Perspectives (A2P), Global South
Mentor   Global South Coordinator, Global Talent Mentoring, Regensburg, Germany
Mentor   Innovation Network For Advanced Materials (INAM), Berlin, Germany
Mentor   The Startup Club, Milan, Italy
Mentor   Imagine2030 Mobility Accelerator, Berlin, Germany
Mentor   Vision Health Pioneers (VHP), Berlin, Germany
Mentor   Berlin Startup School, Berlin, Germany
Mentor   Founder Institute (FI), Berlin, Germany
Mentor   Canary Islands Hub, Gran Canaria, Spain
Mentor   Decelera, Menorca, Spain
Mentor   WLounge, Berlin, Germany
Mentor   Singa Deutschland - Refugee Integration, Berlin, Germany
Community Maker   Event Organizer, Global Innovation Gathering (GIG)
Community Scientist   Event Organizer, Just One Giant Lab (JOGL)
Community Scientist   Event Organizer, Science HackDay Berlin (SHDB)
Community Maker, Maker Faire Berlin
Community Artist   Event Organizer, Spektrum Berlin
Community Scientist, DAINAMITE - Humanoid Robot Robocup SPL Team
Event Organizer, AsiaBerlin Summit (ABS)
Event Organizer, Datanatives   Hack Corona

## 4.4 Products | Projects

CoronaBot   ChatBot in Tamil, https://corona.dreamspace.academy Impedance Spectroscopy For Nitrate Measurement, https://watergenics.tech araBeat   Electrocardiogram (ECG) Sonification, https://projects.aravinth.info/arabeat araMetrics   Impact Measurement System, https://projects.aravinth.info/arametrics M-Gate   M-Bus Sub-Metering Gateway, https://projects.aravinth.info/aracloud macaCloud   Cloud Deployment DevOps, https://projects.aravinth.info/aracloud mgateOS   Embedded Linux, https://projects.aravinth.info/mgateos Senic Hub   Smart Home Gateway, https://senic.com senicOS   Embedded Linux, https://github.com/getsenic Nuimo   Smart Controller, https://github.com/getsenic Nuimo   Smart Controller, https://github.com/getsenic Senic   WiFi & BLE Link Quality Benchmarking, https://projects.aravinth.info/arabot Senic   WiFi & BLE Link Quality Benchmarking, https://projects.aravinth.info/wifi SmartB   Non-Intrusive Load Monitoring Gateway, https://smartb.de Swan Lake Music Buzzer, https://projects.aravinth.info/swan VIVID   Heart Of The City, https://projects.aravinth.info/heart Macsxperts   Hydroponics Fertigation System, https://projects.aravinth.info/dns Jodel   Geofenced Anonymous Messaging Platform, https://projects.aravinth.info/confusion TKN   Smart Green House, https://projects.aravinth.info/green Yetu   Telepresence Robot, https://projects.aravinth.info/spectral StreeMuFi   Street Musicians Platform, https://projects.aravinth.info/streemufi
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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 Watergenics | Company Website, https://watergenics.tech 2019 HSB | Company Website, https://hardwarestartups.berlin 2019 DreamSpace | Company Website, https://dreamspace.academy 2018 2015 Macsxperts | Company Website, http://macsxperts.com 2011 KIMS | Company Website, http://kims-study.com AGM | Company Website, http://studyatagm.in 2009 2008 Aravinth | Personal Website, https://aravinth.info 2020 Dentaria | Dental Health Management Tool Autonomous Vehicle | Cooperative Adaptive Cruise Control for Daimler Mercedes 2013 2013 Shanti CRM | Marketing Campaign Management Tool Petroleum Vessels & Tanks Management System For British Petroleum 2011 2011 Aircraft Maintenance Records System For Boeing Corporation Academics LMU | E-Learning Management System For Liaoning Medical University 2010 GSM DTMF Controlled Two Axes Robot For Fire And Metal Detection 2009 Telecom Call Data Records System For BSNL 2009 2007 Purvottar Consultants | Company Branding 2006 BrokerForParts | Electronic Parts Supply Chain Management Tool 2003 Interactive Anatomy Learning Tool For Moscow Medical Academy

#### 4.5 Talks, Workshops & Exhibitions

2020 Keynote | Women in STEM - Diversity & Inclusion, iGEM, Global 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 Talk | Innovation Thinking, ESOFT, Batticaloa, Sri Lanka 2020 2020 Workshop | Emerging Startup Ecosystem Of Uzbekistan, PDL, Enpact, Germany Talk | Global Innovation Gathering, Chaos Communication Congress, 36C3, Germany 2019 2019 Workshop | Sustainable Making, Giq Dots 2019, Global Innovation Gathering, Kenya Talk | Data, Sovereignty, Democracy, United Nations, IGF 2019, Germany 2019 2019 Keynote | Co-Creating The Dreams With PBL, Relogia 2019, Bulgaria Workshop | Company Culture For Social Responsibility, WLounge, Germany 2019 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 Talk | The Fuck Ups To The Good Times, The Good Times 2.0, Indonesia 2019 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 Exhibit | araBeat + araBot, Maker Faire Berlin 2019, Germany 2019 Keynote | Connecting Asian Origin, Asia Pacific Week Berlin 2019, Germany 2019 2019 Talk | Advanced Material Startups Ecosystem, Asia Pacific Week Berlin 2019, Germany 2019 Talk | Introduction To Community Innovations, Dreamspace Academy, Sri Lanka Talk | Motionlab - The Innovation Hub, Canary Islands Hub, Gran Ganaria 2019 2019 Exhibit | arabeat : Electrocardiogram Sonification, Ackerberg MoZaic East, USA Talk | Introduction To Berlin Hardware Ecosystem, Shenzhen Meets Berlin, Germany 2019 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 Exhibit | Hydroponics Kitchen Vertical Farm, Krishi Mela 2015, India 2015

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

# **General 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 corporations 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 300+ 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 international organisations and supported several individuals, startups, accelerators, incubators, innovation hubs, corporations, 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.