

# 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.

*This is a simplified resume and detailed informations about me, my skills and my projects can be found at [GitHub](#), [LinkedIn](#), [Personal Website](#)*

## 1 Personal

NAME: Aravinth Panch  
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CV UPDATED ON: 22nd June 2020

## 2 Experience

### 2.1 Employed

APR 2020	Co-Founder   Chief Technology Officer
JUN 2019	<i>Watergenics UG, Berlin, Germany</i>
JUN 2019	Head Of Embedded Systems Engineering
AUG 2017	<i>Next Big Thing AG, Berlin, Germany</i>
JUL 2017	Lead Embedded Systems Engineer
APR 2016	<i>Senic GmbH, Berlin, Germany</i>
MAR 2016	Co-Founder   Chief Technology Officer
OCT 2015	<i>Macsxperts, Bangalore, India</i>
SEP 2015	Embedded Systems Engineer
AUG 2015	<i>SmartB Energy Management GmbH, Berlin, Germany</i>
MAY 2015	Systems Architect
OCT 2014	<i>The Jodel Venture GmbH, Berlin, Germany</i>
SEP 2014	Embedded Systems Engineer
JAN 2013	<i>Yetu AG, Berlin, Germany</i>
JUL 2011	Senior Software Engineer
APR 2011	<i>Infosys LTD, Mysore, India</i>
MAR 2011	Co-Founder   Chief Technology Officer
NOV 2009	<i>Academia Grandiosa Medicinae, New Delhi, India</i>
OCT 2009	Systems Engineer
OCT 2008	<i>Tata Consultancy Services LTD, New Delhi, India</i>

## 2.2 Freelanced | Affiliated

CURRENT MAY 2003	Founder   Interdisciplinary Expert <i>araCreate UG, Global</i>
CURRENT AUG 2018	Co-Founder   Director Of Innovation <i>DreamSpace Academy, Batticaloa, Sri Lanka</i>
CURRENT APR 2019	Ambassador   Tech Diplomacy <i>AsiaBerlin By Berlin Senate, Berlin &amp; Asia-Pacific</i>
CURRENT MAY 2018	Advisory   International Partnerships <i>MotionLab ML Gmbh, Berlin, Germany</i>
CURRENT JUN 2020	Advisory   Biotech & Nanotech <i>Sri Lanka Institute Of Nanotechnology (SLINTEC), Colombo, Sri Lanka</i>
CURRENT APR 2020	Global South Coordinator <i>Global Talent Mentoring By University Of Regensburg, Regensburg, Germany</i>
CURRENT AUG 2015	Co-Founder   Partnerships <i>Zerosec Solutions, Coimbatore, India</i>
CURRENT FEB 2014	Founding Member   Partnerships <i>Greenbuzz Berlin e.V., Berlin, Germany</i>
CURRENT FEB 2014	Advisory <i>Motorskins, Berlin, Germany</i>
JUN 2019 SEP 2018	Advisory   Investment & Manufacturing <i>Assistr Digital Health Systems GmbH, Berlin, Germany</i>
JUN 2019 SEP 2017	Advisory   Engineering & Manufacturing <i>Metr Building Management Systems GmbH, Berlin, Germany</i>
JUN 2019 DEC 2018	Advisory   Corporate Partnerships <i>Carion Mobility GmbH, Berlin, Germany</i>

## 3 Education

### 3.1 Academics

2015 2011	Master of Science in Electrical Engineering <i>Technical University of Berlin, Berlin, Germany</i>
2008 2004	Bachelor of Technology in Electronics and Communication Engineering <i>SRM University, Chennai, India</i>
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

### 3.4 Languages

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

### 3.5 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

## 4 Nice to Have

### 4.1 Awards

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

### 4.2 Mentor

SEP 2018 - CURRENT	Innovation Network For Advanced Materials (INAM), <i>Berlin, Germany</i>
APR 2020 - CURRENT	The Startup Club, <i>Milan, Italy</i>
FEB 2020 - CURRENT	Imagine2030 Mobility Accelerator, <i>Berlin, Germany</i>
MAR 2020 - CURRENT	Vision Health Pioneers (VHP), <i>Berlin, Germany</i>
MAR 2020 - CURRENT	Access 2 Perspectives (A2P), <i>Global South</i>
JAN 2020 - CURRENT	Berlin Startup School, <i>Berlin, Germany</i>
OCT 2019 - CURRENT	Founder Institute (FI), <i>Berlin, Germany</i>
MAR 2019 - CURRENT	Canary Islands Hub, <i>Gran Canaria, Spain</i>
APR 2019 - CURRENT	Decelera, <i>Menorca, Spain</i>
NOV 2019 - CURRENT	WLounge, <i>Berlin, Germany</i>
SEP 2016 - DEC 2016	Singa Deutschland - Refugee Integration, <i>Berlin, Germany</i>

### 4.3 Communities

MAY 2019 - CURRENT	Member   Community Maker, <i>Global Innovation Gathering (GIG)</i>
MAR 2020 - CURRENT	Member   Community Scientist, <i>Just One Giant Lab (JOGL)</i>
MAR 2020 - APR 2020	Event Organizer   Mentor, <i>Datanatives   Hack Corona</i>
MAR 2019 - CURRENT	Event Organizer, <i>AsiaBerlin Summit (ABS)</i>
OCT 2014 - CURRENT	Event Organizer   Community Scientist, <i>Science HackDay Berlin (SHDB)</i>
MAY 2015 - CURRENT	Community Maker, <i>Maker Faire Berlin</i>
SEP 2015 - SEP 2019	Community Artist, <i>Spektrum Berlin</i>
OCT 2014 - AUG 2015	Community Scientist, <i>DAINAMITE - Humanoid Robot Robocup SPL Team</i>

### 4.4 Talks, Workshops & Exhibitions

FEB 2020	[Talk] Innovation Ecosystems Around The World, <i>Technical College Batticaloa, Batticaloa, Sri Lanka</i>
FEB 2020	[Talk] Innovation Ecosystems Around The World, <i>Dreamspace Academy, Batticaloa, Sri Lanka</i>
FEB 2020	[Talk] Innovation Thinking, <i>Esoft, Batticaloa, Sri Lanka</i>
JAN 2020	[Workshop] Emerging Startup Ecosystem For Uzbekistan, <i>Programme Designers' Lab Uzbekistan, Enpact, Berlin, Germany</i>
DEC 2019	[Talk] Global Innovation Gathering : Dreamspace Academy, <i>Chaos Communication Congress, 36C3, Leipzig, Germany</i>
DEC 2019	[Workshop] Sustainable Making, <i>Gig Dots 2019, Global Innovation Gathering, Nakuru, Kenya</i>
NOV 2019	[Talk] Data, Sovereignty, Democracy : A Global South Perspective, <i>United Nations Internet Governance Forum, Igf 2019, Motionlab, Berlin, Germany</i>
NOV 2019	[Keynote] Co-Creating The Dreams With Project & Challenge Based Learning, <i>Relogia 2019, Sofia, Bulgaria</i>

NOV 2019	[Workshop] Company Culture For Social Responsibility, <i>Wlounge Workshop Circle, Berlin, Germany</i>
NOV 2019	[Talk] Breaking The Wall Of Subject Based Learning, <i>Falling Walls 2019, Berlin, Germany</i>
OCT 2019	[Talk] Hardware: Starting Up The Hard Way, <i>Climatetech Session 2, Founder Institute Berlin, Berlin, Germany</i>
AUG 2019	[Talk] Advanced Prototyping, <i>Openhpi, School Of Design Thinking, Berlin, Germany</i>
JUL 2019	[Talk] The Fuck Ups To The Good Times, <i>The Good Times 2.0, Jakarta, Indonesia</i>
JUL 2019	[Talk] Motionlab Berlin - The Innovation Hub, <i>The Good Times 2.0, Jakarta, Indonesia</i>
JUL 2019	[Panel] 6Th Green And Innovative Economy, <i>Startup Nation Thailand 2019, Bangkok, Thailand</i>
MAY 2019	[Exhibit] araBeat + araBot, <i>Maker Faire Berlin 2019  Berlin, Germany</i>
MAY 2019	[Keynote] Connecting Asian Origin, <i>Asia Pacific Week Berlin 2019, Berlin, Germany</i>
MAY 2019	[Talk] Advanced Material Startups Ecosystem, <i>Asia Pacific Week Berlin 2019, Berlin, Germany</i>
APR 2019	[Talk] Introduction To Community Innovations & Project Based Learning, <i>Dreamspace Academy, Batticaloa, Sri Lanka</i>
FEB 2019	[Talk] Motionlab Berlin - The Innovation Hub, <i>Canary Islands Hub, Gran Canaria, Canary Islands</i>
JAN 2019	[Talk] Introduction To Berlin Hardware Ecosystem, <i>Shenzhen Meets Berlin, Berlin, Germany</i>
DEC 2018	[Keynote] Motionlab Berlin - The Innovation Hub Global, <i>Innovation Summit 2018, Chengdu, China</i>
OCT 2018	[Talk] Robotics & Iot Innovations For Solving The Fundamental Human Problems, <i>Broadband World Forum (Bbwf) 2018, Berlin, Germany</i>
OCT 2018	[Exhibit] Arabeat : An Interactive New Media Art That Sonifies Electrocardiogram, <i>Gathering For Open Science Hardware (Gosh) 2018, Shenzhen, China</i>
APR 2018	[Talk] Over-The-Air Update : The Crucial Component Of Iot Products, <i>Ethereum Camp 2018, Berlin, Germany</i>
APR 2017	[Talk] Learn Bluetooth Low Energy (Ble) On Raspberry Pi With Nuimo, <i>Techjam 2017, Berlin, Germany</i>
NOV 2015	[Exhibit] Hydroponics Kitchen Vertical Farm, <i>Krishi Mela 2015, Bangalore, India</i>
SEP 2015	[Exhibit] Human ♥ Robot, <i>Spektrum, Berlin, Germany</i>
JUL 2015	[Exhibit] Gesture Recognition For Human-Robot Interaction, <i>Distributed Artificial Intelligence Laboratory (Dai-Labor), Berlin, Germany</i>
MAY 2015	[Exhibit] Heart Of The City, <i>Vivid Light Festival 2015, Sydney, Australia</i>

# 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.