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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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 OCT 2008	Systems Engineer *Tata Consultancy Services, New Delhi, India*

| CURRENT | Founder │ 360° Consultant & Engineer |
| 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 Freelancing Experience

MAR 2020 - CURRENT	Trainer	Access 2 Perspectives (A2P), *Global South*
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*

4.2 Advisory Experience

JUN 2020 - CURRENT	Advisory	Biotech & Nanotech, *Sri Lanka Institute Of Nanotechnology (SLINTEC), Colombo, Sri Lanka*
NOV 2019 - CURRENT	Advisory, *Motorskins, Berlin, Germany*
MAY 2018 - CURRENT	Advisory	International Partnerships *MotionLab ML Gmbh, Berlin, Germany*
SEP 2018 - JUN 2019	Advisory	Investment & Manufacturing, *Assistr Digital Health Systems GmbH, Berlin, Germany*
SEP 2017 - JUN 2019	Advisory	Engineering & Manufacturing, *Metr Building Management Systems GmbH, Berlin, Germany*
DEC 2018 - JUN 2019	Advisory	Corporate Partnerships, *Carion Mobility GmbH, Berlin, Germany*

4.3 Mentoring Experience

APR 2020 - CURRENT	Global South Coordinator, *Global Talent Mentoring By University Of Regensburg, Regensburg, Germany*
SEP 2018 - CURRENT	Innovation Network For Advanced Materials (INAM), *Berlin, Germany*
APR 2020 - CURRENT	The Startup Club, *Milan, Italy*
FEB 2020 - CURRENT	Imagine2030 Mobility Accelerator, *Berlin, Germany*
MAR 2020 - CURRENT	Vision Health Pioneers (VHP), *Berlin, Germany*
JAN 2020 - CURRENT	Berlin Startup School, *Berlin, Germany*
OCT 2019 - CURRENT	Founder Institute (FI), *Berlin, Germany*
MAR 2019 - CURRENT	Canary Islands Hub, *Gran Canaria, Spain*
APR 2019 - CURRENT	Decelera, *Menorca, Spain*
NOV 2019 - CURRENT	WLounge, *Berlin, Germany*
SEP 2016 - DEC 2016	Singa Deutschland - Refugee Integration, *Berlin, Germany*

4.4 Communities

MAY 2019 - CURRENT	Member	Community Maker, *Global Innovation Gathering (GIG)*
MAR 2020 - CURRENT	Member	Community Scientist, *Just One Giant Lab (JOGL)*
MAR 2020 - APR 2020	Event Organizer	Mentor, *Datanatives	Hack Corona*
MAR 2019 - CURRENT	Event Organizer, *AsiaBerlin Summit (ABS)*
OCT 2014 - CURRENT	Event Organizer	Community Scientist, *Science HackDay Berlin (SHDB)*
MAY 2015 - CURRENT	Community Maker, *Maker Faire Berlin*

SEP 2015 - SEP 2019	Community Artist, *Spektrum Berlin*
OCT 2014 - AUG 2015	Community Scientist, *DAINAMITE - Humanoid Robot Robocup SPL Team*

4.5 Talks, Workshops & Exhibitions

FEB 2020	[Talk] Innovation Ecosystems Around The World, *Technical College Batticaloa, Batticaloa, Sri Lanka*
FEB 2020	[Talk] Innovation Ecosystems Around The World, *Dreamspace Academy, Batticaloa, Sri Lanka*
FEB 2020	[Talk] Innovation Thinking, *Esoft, Batticaloa, Sri Lanka*
JAN 2020	[Workshop] Emerging Startup Ecosystem For Uzbekistan, *Programme Designers' Lab Uzbekistan, Enpact, Berlin, Germany*
DEC 2019	[Talk] Global Innovation Gathering : Dreamspace Academy, *Chaos Communication Congress, 36C3, Leipzig, Germany*
DEC 2019	[Workshop] Sustainable Making, *Gig Dots 2019, Global Innovation Gathering, Nakuru, Kenya*
NOV 2019	[Talk] Data, Sovereignty, Democracy : A Global South Perspective, *United Nations Internet Governance Forum, Igf 2019, Motionlab, Berlin, Germany*
NOV 2019	[Keynote] Co-Creating The Dreams With Project & Challenge Based Learning, *Relogia 2019, Sofia, Bulgaria*
NOV 2019	[Workshop] Company Culture For Social Responsibility, *Wlounge Workshop Circle, Berlin, Germany*
NOV 2019	[Talk] Breaking The Wall Of Subject Based Learning, *Falling Walls 2019, Berlin, Germany*
OCT 2019	[Talk] Hardware: Starting Up The Hard Way, *Climatetech Session 2, Founder Institute Berlin, Berlin, Germany*
AUG 2019	[Talk] Advanced Prototyping, *Openhpi, School Of Design Thinking, Berlin, Germany*
JUL 2019	[Talk] The Fuck Ups To The Good Times, *The Good Times 2.0, Jakarta, Indonesia*
JUL 2019	[Talk] Motionlab Berlin - The Innovation Hub, *The Good Times 2.0, Jakarta, Indonesia*
JUL 2019	[Panel] 6Th Green And Innovative Economy, *Startup Nation Thailand 2019, Bangkok, Thailand*
MAY 2019	[Exhibit] araBeat + araBot, *Maker Faire Berlin 2019, Berlin, Germany*
MAY 2019	[Keynote] Connecting Asian Origin, *Asia Pacific Week Berlin 2019, Berlin, Germany*
MAY 2019	[Talk] Advanced Material Startups Ecosystem, *Asia Pacific Week Berlin 2019, Berlin, Germany*
APR 2019	[Talk] Introduction To Community Innovations & Project Based Learning, *Dreamspace Academy, Batticaloa, Sri Lanka*
FEB 2019	[Talk] Motionlab Berlin - The Innovation Hub, *Canary Islands Hub, Gran Ganaria, Canary Islands*
JAN 2019	[Talk] Introduction To Berlin Hardware Ecosystem, *Shenzhen Meets Berlin, Berlin, Germany*
DEC 2018	[Keynote] Motionlab Berlin - The Innovation Hub Global, *Innovation Summit 2018, Chengdu, China*
OCT 2018	[Talk] Robotics & Iot Innovations For Solving The Fundamental Human Problems, *Broadband World Forum (Bbwf) 2018, Berlin, Germany*
OCT 2018	[Exhibit] Arabeat : An Interactive New Media Art That Sonifies Electrocardiogram, *Gathering For Open Science Hardware (Gosh) 2018, Shenzhen, China*
APR 2018	[Talk] Over-The-Air Update : The Crucial Component Of Iot Products, *Ethereum Camp 2018, Berlin, Germany*
APR 2017	[Talk] Learn Bluetooth Low Energy (Ble) On Raspberry Pi With Nuimo, *Techjam 2017, Berlin, Germany*
NOV 2015	[Exhibit] Hydroponics Kitchen Vertical Farm, *Krishi Mela 2015, Bangalore, India*
SEP 2015	[Exhibit] Human ♥ Robot, *Spektrum, Berlin, Germany*
JUL 2015	[Exhibit] Gesture Recognition For Human-Robot Interaction, *Distributed Artificial Intelligence Laboratory (Dai-Labor), Berlin, Germany*

4.6 Languages

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

4.7 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.