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:	16th June 2020

2 Experience

2.1 Employed

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 Software 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 LTD, New Delhi, India*

2.2 Freelanced | Affliated

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

3 Education

3.1 Academics

2015 2011	Master of Science in Electrical Engineering *Technical University of Berlin, Berlin, Germany*
2008 2004	Bachelor of Technology in Electronics and Communication Engineering *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 Nice to Have

4.1 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

4.2 Languages

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

4.3   Awards

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

4.4   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*
MAY 2015 | [Exhibit] Heart Of The City, *Vivid Light Festival 2015 | Sydney, Australia*

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

As an engineer, he worked for 2 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.

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 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 advisor, he supported several individuals, startups, accelerators, incubators, innovation hubs, corporates, investors, manufacturers, research institutions, universities, government initiatives, art galleries and social enterprises, globally.

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.