

Detailed portfolio

Mayur Sarode, M.Sc., B.Tech.

May, 2024

Engineering/management degrees

- Mayur has a master's in electrical engineering from the Technical University of Eindhoven (2009-2011)
- Mayur has completed Disruptive Strategy- Harvard Business School online (June- Aug 2021)
- Mayur also has a bachelor's in electrical and Electronics Engineering from Amrita School of Engineering, Coimbatore, India (2004-2008)

Technical and management skills relevant to the role

- Managing and motivating individual contributors- compassionate and motivating team leader.
- Entrepreneur mindset- Opened my own High-tech Consulting company
- Love to write and explain arcane concepts- my blog.
- Stakeholder management at levels- excel at cross collaboration.
- Good understand of an organization's finance and groups budgeting.
- Acumen in new product development and user requirements analysis.
- Wi-Fi and IOT Subject matter expert – experience of working and leading various task groups (TGs) in Wi-Fi Alliance and Cablelabs.
- RF/PHY/MAC experience with various communication protocols such as 802.15.4, Bluetooth LE/ 802.11/G.Hn/DOCSIS
- Learned and experienced Wireless semiconductor development during my solid 5 years of work in the IOT silicon development group at Qorvo.
- Coding skills– Developed numerous Python script for creating test framework for automation, statistical analysis, and UI development.
- Python for Digital Signal Processing.
- C/C++ code review/development for Android OS for XR devices.
- MATLAB WLAN toolbox and instrumentation.
- Linux OS and Device drivers- Great at building Proof-of-Concepts.
- Advanced ChatGPT prompting and Excel skill – Have made developments tools for analyzing wireless link budget in excel.

Work Experience

Mayur has experience in managing wireless/wired communication systems (hardware, firmware, cloud) design and development campaigns at various product and silicon manufacturing companies.

Principal Consultant- SARODEOVERWIRELESS Consulting, Canada

- Presently working with Liberty Global UK on designing RF, Wi-Fi certification and wireless product testing specifications and requirements for upcoming dualband/triband Wi-Fi7-DOCSIS3.1/4 and XGSPON gateways

- Leading End-to-End Quality of Experience improvement and low latency network proof-of-concept at Liberty Global, UK. Investigating latency measurement techniques, AI/ML based flow classification and WMM, L4S based traffic shaping on Wi-Fi and access network for residential customers. Wrote whitepapers, developed test plans, managed vendor engagement and organizing PoC test campaign for functional and non-functional testing of the latency management solution.
- During three-month consulting work for a hardware startup in Vancouver, I lead the Digital delivery team on deploying a G.Hn based IoT platform for monitoring the electrical grid on Amazon cloud for multiple European utility provider (E.On and Iberdrola). Instrumental in securing business funding by executing factory and field upgrade of the G.Hn network.

Principal Wireless Architect- Microsoft, Canada

- Standards engagement expert - Wi-Fi Alliance (XRMSTG), 3GPP (RAN1, Redcap modem).
- Enabled Wi-Fi6E/7 connectivity on Microsoft's Head-mounted Displays (HMD). Created PoC to explore 802.11ax/be low latency high throughput features such as Multi Link Operation (MLO), Mirrored Stream Classification Service (MSCS).
- Developed End to End network architecture for low latency and high throughput over DOCSIS-XGPON-Wi-Fi and 5G networks for Mixed Reality use cases with the goal of enabling remote rendering for a thin client product development.
- Provided Architectural steer to the HW engineering team on next generation Mixed Reality hardware silicon verification (5G/WLAN/BT/UWB), system validation (Frequency planning) and performance testing.
- SME on Wi-Fi technology and FCC/ETSI/CE certification.
- Explored Channel State Information (CSI) based Wi-Fi sensing methods for hand gesture detection for MR use cases.

Liberty Global – Senior Architect II – Wireless technologies, The Netherlands

- Lead Standard engagement expert for Liberty Global at Wi-Fi Alliance and CableLabs. Held the Vice Chair of Customer Experience Task Group and was instrumental in the release of the 'Device Metrics' Test Plan during my tenure. Made numerous contributions and wrote various section of the test plan. I was also an active contributor to the Operator Marking Task Group where I wrote a whitepaper on Wi-Fi and 5G QoS convergence for Fixed-Wireless product line.
- Organized RFI/RFP workshops for Wi-Fi OEM vendor selection with key stakeholders in the organization.
- Owner of Product Requirement Document (PRD) for wireless connectivity aspects of the CPE products (antennas, RF, Wi-Fi silicon and certification)
- Created cost-effective and unique PHY/MAC Wi-Fi silicon evaluation test benches (using Octoscope/MATLAB) which helped save around 1M dollars in CAPEX and OPEX expenditures.
- Created a coverage modeling tool for 802.11ax radios based on modeling multipath, fading, MIMO/Diversity gain and silicon vendor's WLAN performance parameters such as sensitivity, 1 dB compression point.

- Organized and led a team of test engineers to verify cable modem and Mesh systems hardware quality in EVT and DVT phase (1M units)
- Created requirements for OEM vendor for testing of products in PVT phase.
- Provided architectural steer on defining test scope for functional and non-functional test groups (Device and Cloud software)
- SME on defining and checking the quality of wireless regulatory and certification.
- Key stakeholder for design reviews and root cause analysis for blocking connectivity issues seen in the field.
- Organized PoC for testing emerging technologies (e.g., Wi-Fi6E, DPD) and informing VP/CXO level stakeholders on the impact on the roadmap of the technology.

Senior RF Systems Engineer – Greenpeak/Qorvo Applications, The Netherlands

- Led technical engagements with Fortune 500 companies like Amazon, Comcast and Charter on RF design verification and validation of Qorvo's IoT silicon in customer's products (voice remote control, STB, IOT gateways)- Excellent knowledge of RF testing, IOT protocols, IOT silicon and certifications requirements.
- Developed system engineering capability in the Business Unit (BU) by interfacing with products, PM, sales, analog, digital, firmware and software stack teams of the Qorvo ASIC and RF Front end solutions (Zigbee, Bluetooth Low energy). Evaluated multi-protocol and coexistence solutions between Wi-Fi and 802.15.4 (also wrote a patent which is being used in a customer product).
- Saved company millions of dollars on CAPEX/OPEX expenditure by creating a unique Over the Air performance testing capability with available equipment – This showed the real-world performance of the IOT silicon on customer products and led to high confidence and many design wins.
- Was instrumental in building relationships and streamlining of testing, customer support and development activities between US and Netherlands sites after Qorvo's acquisition of Greenpeak technologies in 2016.
- Created an audio validation test jig (1000 dollars only) which was used to perform Root cause Analysis on the impact of audio quality due to frequency drift of internal oscillator for Qorvo IOT silicon.

Key Achievements

- Patent on Multi radio coexistence interface.
- CWNA, CWAP, CWSP, CWISA, ASEP certified.
- Held the position of Vice Chair for the Customer Experience Task Group- Wrote various sections of industry first Wi-Fi performance test plan called "Device metrics".
- Selected as a best performer at Liberty Global within 1 year of joining the organization- 'You Rock'.
- Microsoft Mixed Reality hired me directly from Netherlands and created an exclusive role in Vancouver Canada for me on my request.
- Within 4 months of joining Microsoft, created a cross functional standards newsletter (10K readership) among 3 large BUs.
- Invited to speak at a Panel discussion on "Understanding Latency" by Domos.

- Entrepreneur and owner of High-Tech Consulting company – <https://www.sarodeoverwireless.com>

Certifications & Licenses

- Mayur is a certified Wireless IOT Solutions Administrator (CWISA-102) (Dec 2023)
- Mayur is a certified Wireless Analysis Professional (CWAP) (October 2023)
- Mayur is a certified Wireless Security Professional (CWSP) (Sep 2023)
- Mayur is a certified Wireless Network Administrator (CWNA) (Sep 2021)
- Mayur is a certified *Associate System Engineering Certified Professional (ASEP)*, (Nov 2019)
- Mayur has completed training on 7 habits of highly effective people by Franklin Covey. (March 2021)
- Mayur has completed training on Design thinking at Liberty Global
- Mayur has completed an online course on *Innovation Management from Rotterdam School of Management (Aug 2017)*
- Mayur has completed an online course on Industrial IOT markets and security by University of Colorado, Bolder
- Mayur has completed ISO 9001:2015 internal auditor training from Lloyd's Register Quality Assurance (March 2017)
- Mayur was a participant in a 5 day the Smart Sensor Systems workshop at TU Delft (May 2012)
- Mayur has completed online course on AI foundations in LinkedIn Learning (April 2023)
- Mayur has completed online course on Purchasing foundations by LinkedIn Learning (March 2023)
- Mayur has completed online course on Lean six Sigma foundations on LinkedIn Learning (March 2023)
- Mayur has completed online course on Network Service Architecture by IEEE COMSOC (May 2023)
- Mayur has completed online course on Introduction to Quantum Communications by IEEE COMSOC (May 2023)

Personal Characteristics:

- **Extraverted, Intuitive, Feeling, and Prospecting (ENFP) by Brigg Meyers.**



- **Gallup Strength Finder**

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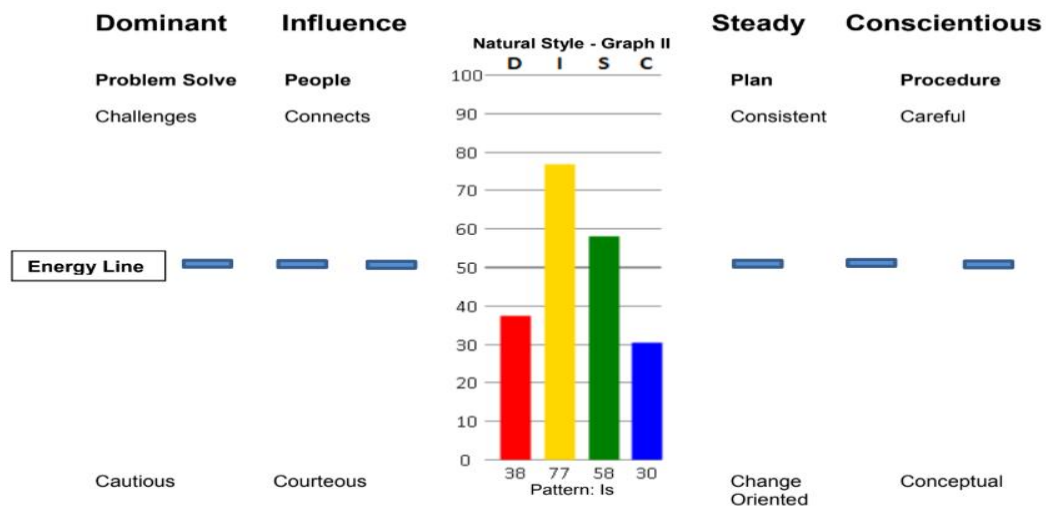
Mayur Sarode

SURVEY COMPLETION DATE: 11-01-2014

YOUR TOP 5 THEMES

1. Ideation
2. Individualization
3. Relator
4. Restorative
5. Arranger

- **DISCERT profile (<https://discert.com/>)**



- **Collaborative**

- High
- Led the creation of a Wireless Innovation and Standards (WISE) Forum at Microsoft.

- **Flexible**

- High
- Lived and worked in multiple cultures – Asia, Europe and North America

- **Positive attitude**

- High
- Started my own company in Vancouver, Canada

- **Quality-oriented**

- High
- Was an internal auditor at Qorvo ISO 9001:2015
- **Time sensitive**
 - High
 - Mayur has worked in a high pressure, time sensitive applications team at Qorvo.
- **Hands-on**
 - High
 - Made multiple prototypes for testing audio systems and wireless performance. Check my blog where he shares his testing results at home. <https://sarodeoverwireless.com>
- **Curious**
 - High
 - Abreast with latest development in tech- 6G, quantum computing, etc.
- **Attention to detail**
 - High
 - Written complex and detailed white papers for Wi-Fi alliance.
- **Customer focused**
 - High
 - Mayur is obsessed with understanding customers met and unmet needs. He did an intensive course on Disruptive Strategy to understand how to develop winning products and organize business around it.

Recommendations

Please check some of the recommendations I have received from my previous colleagues (more on [LinkedIn](#)).

Microsoft:

From : Emily Chung on Feb 12, 2023

Here's something I think you do really well and hope you keep doing:

Mayur is an amazing architect and high performer. Mayur has exceeded expectations during his time at Microsoft. Mayur has a strong balanced skill set of technical innovation, hands on experimentation, unifying different product groups, delivering prototypes, and being customer facing. It has been my privilege to have Mayur on my team. Mayur is a true example of being bold, acting with highest level of integrity, and being persistent.

Here's a suggestion for how you could leverage this strength further:

N/A

From : Toaha Ahmad on Dec 01, 2022

Here's something I think you do really well and hope you keep doing:

It's not been that long that I have worked with you but I really like how you approach things in a very calm and collected demeanor. I love the way you have broken down problems/issues at hand and tried to come up with a logical path of resolution. I have no doubts that your technical abilities will be immensely useful for this group

Here's a suggestion for how you could leverage this strength further:

I believe as you get more engrained in working with this group, you will be able to incorporate the intricacies of how this organization operates in your logical resolution path.

Liberty Global:



Arjan van der Vegt · 1st

On the road to 10 Gbps

March 18, 2023, Arjan managed Mayur directly

Mayur built the capability to validate the quality of the service that Liberty Global provides over Wi-Fi to our customers on our latest generation of gateways. Mayur emphasized the importance of latency and jitter now that throughput is no longer the main constraint. This was also reflected in his work as the Vice Chair of the Wi-Fi Alliance Customer Experience Task Group, which resulted in the Wi-Fi Device Metrics test plan.

Mayur is very ambitious, always looking for improvements, willing to share his knowledge and collaborate across different teams. I really enjoyed working with Mayur and I would definitely recommend him for any position that requires expertise on wireless technologies.



Pavithra TG · 1st

Hardware Design Engineer at Infosys Limited

February 11, 2023, Pavithra reported directly to Mayur

It's a rare opportunity to report to an Architect who is also a coach and mentor-but I did when I worked for Mayur, two years at the Liberty Global collaborating on several projects. Mayur has vision and passion for the wireless technology, he designed project structure to out-perform the client expectations. When I was new to Wi-fi technology, he guided and helped me to grow in this field. I was able to rectify and learn because of his guidance and brain-storming sessions. Thanks to Mayur, we were able to expand our Wi-Fi Engineering tests scope and designed many test cases to get the best possible Wi-Fi results.



Richard Squire · 1st

Director of Connectivity Strategy

September 27, 2022, Richard was senior to Mayur but didn't manage Mayur directly

 All LinkedIn members

On 

I would have no hesitation in recommending Mayur, his wireless technical expertise, analytical skill, and ability to articulate complex technical concepts is second to none. Whilst working together at Liberty Global I have always appreciated Mayur's support, technical contributions, and ability to quickly understand and disseminate complex technical concepts understandably across CPE, Wi-Fi, RF, IOT & Mobile topics. He has been a pleasure to work with, and will no doubt make fantastic contributions wherever he works next.



Marcelino Vogel  · 1st

Wi-Fi Architect at Liberty Global, CWNA

June 15, 2022, Marcelino worked with Mayur but on different teams

 All LinkedIn members

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Mayur is the right person when you need to know Wi-Fi standards in details. We have been working together for some months in Liberty Global and he already proved a couple of times to have a deep knowledge on wireless technologies.

He is also very supportive and responsive, I am really glad to have someone like him as part of my team. I would definitely recommend him as a Tech WiFi architect.

Qorvo:



Wayne Polonio · 1st

Product Line Management and Sales | Global | Wireless Semiconductors & Energy

May 15, 2020, Wayne was senior to Mayur but didn't manage Mayur directly

All LinkedIn members

On

Mayur's technical prowess and clear communication was key to becoming a solution provider to Amazon while guiding our new partners through testing in our labs, being part of on site bring up workshops with a third party and final coexistence workshops at their facilities in California. His contribution to Qorvo will be lasting.



Ahmad Abdelmajid · 1st

Entrepreneur

May 11, 2020, Ahmad managed Mayur directly

All LinkedIn members

On

It has been a great pleasure to have known and worked with Mayur! He has unique abilities, strong technical knowledge and very pleasant to work with. In addition to his forward and strategic thinking, Mayur has extensive experience in RF, IoT, BLE, Zigbee, Thread, and many wireless and advanced communication systems that can be translated as below:

- Deep grasp of all standards, products, systems, markets, and strategy.
- In depth knowledge understanding of system issues.
- Strong knowledge in using all RF measurement equipment's.
- He is an amazing multi-tasker and works very well independently and within a team.
- Very motivated and passionate to give all internal or external customers the best possible support.

Mayur has great growth potential in the wireless communication industry and I have no doubt that he can make great contributions wherever he goes.



Simon Maes · 1st

Embedded Software Engineer at Qorvo, Inc.

April 24, 2020, Simon worked with Mayur but on different teams

All LinkedIn members

On

I worked very closely with Mayur during the validation of Qorvo's voice controlled products. Working with Mayur was a pleasure. Mayur shows a high level of dedication and communicates clearly to get the job done, working together as a team! Thanks Mayur for the nice collaboration!



Jules van Leusden · 1st

RF Test and Measurement Engineer at Qorvo LPW Business Unit Utrecht, NL.

August 13, 2019, Jules worked with Mayur on the same team

All LinkedIn members

On

I have had the pleasure of working with Mayur for over 4 years and got to know him as a fine colleague and person! Mayur is the expert on co existence in time and frequency domain of IoT systems, theoretical as well practical. And he is the go to person for wireless systems protocols, always patient explaining everything.