

ANU K SANDHU

Quality Engineering | AI & Automation | Program Leadership

 Fremont, CA

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SUMMARY

- Accomplished Engineering and Technical Program Leader with 15+ years leading large scale software quality, automation, and infrastructure programs across edge, cloud, AI, and wireless domains.
- Expert in designing end-to-end test strategies, automation frameworks, and CI/CD workflows that accelerate releases, elevate coverage, and ensure reliability at scale.
- Proven leader in building high-performing teams, spearheading cross-functional initiatives, and delivering impactful commercial deployments.
- Skilled in leveraging AI/ML and data-driven insights to optimize quality workflows, enhance engineering efficiency, and drive program visibility.

CORE STRENGTHS

Program & Team Leadership: Cross-Functional Execution • OKRs • Agile/Scrum (SM) • Risk Mitigation • Stakeholder Communications • Mentoring

Quality & Automation: Test Strategy • End-to-End Automation • CI/CD • Shift-Left Practices • KPI Dashboards • Release Management

Domains: Distributed Edge/Cloud Compute • Wireless Systems (5G/3G/EV-DO/Wi-Fi) • Networking • Microservices • APIs

AI/ML: LLM-Based Automation • AI Test Generation • Google ADK • Data Analytics • AI GPTs/Co-Pilots

Tools & Tech: Python • Git • Jenkins • Kubernetes • Docker • Jira • Zephyr • Grafana • Robot • Selenium • Wireshark • eazyBI • Figma • Matlab • Linux

EDUCATION

- P.D. Electrical Engineering - Columbia University, USA
- M. Eng. Electrical Engineering - McMaster University, Canada
- B. Eng. Electrical & Computer Engineering - McMaster University, Canada

CERTIFICATIONS & RECOGNITION

AI/ML Certifications:

- DeepLearning.AI: Generative AI for Software Development, Python for AI Programming
- LinkedIn Learning: Responsible AI, AI-Powered Agile Strategies for Modern Project Management, AI for Managers
- Google/Kaggle: 5-Day AI Agents Intensive

Awards: Multiple organizational and individual awards for automation, innovation, program delivery and leadership, including CEO Award

Community: Volunteer Judge - FIRST Robotics

AI Publications: Graduate AI Research Thesis, IEEE Papers, and Conference Presentations on neural networks for adaptive beamforming in wireless systems

PROFESSIONAL EXPERIENCE

Cloud Software Engineering Manager | Quality & Automation

Intel Corporation, Santa Clara, CA

Apr 2017 - Nov 2024

Distributed Edge/Cloud Projects:

- Led global quality and automation teams for intelligent edge/cloud platform software and AI-integrated applications.
- Architected end-to-end test strategies and automation frameworks, cutting execution time by 50%+, while providing 100% requirements coverage and reliability.
- Developed KPI-driven quality dashboards enabling early risk identification, mitigation, and on-time software deliveries.
- Championed shift-left QA practices and CI/CD integration, enhancing release reliability, engineering velocity, and cross-functional collaboration.
- Partnered with DevOps and engineering teams to strengthen pipeline reliability, automation coverage, and environment stability.

Wireless (5G) Projects:

- Led end-to-end integration and validation across multiple BUs for 5G wireless based sportscasting and AI/AR/VR applications, delivering high-visibility demos and launch for 5G Edge Cloud Center.
- Supported early 5G silicon bring-up and industry-first 5G 2-in-1 PC modem, earning top industry recognition at MWC.

Senior Staff Engineer & Manager | System Integration & Testing

Qualcomm Inc., San Diego, CA

Nov 2006 - Apr 2014

- Led integration and system testing for 3G EV-DO RevA/RevB wireless CSM/RAN software releases, supporting 88M+ subscribers within a global ecosystem of 209M+ users across 325+ operators.
- Managed and Optimized complex lab and OTA environments, network configurations, and upgrades, to support evolving feature sets.
- Implemented an end-to-end OTA workflow automation framework, achieving 60% efficiency gains and expanding test coverage.
- Directed live field demos, technology trials, and trade shows, enabling operator adoption and driving revenue growth.

CAREER NOTE

- Sabbatical (2014-2017, 2025): Relocation, focused professional development. Engaged in **AI/ML-powered projects** for automated quality engineering workflows, certifications, and technical skill-building.