



SAN FRANCISCO, CA
(415) 894-9350 ✦ akamlani@gmail.com
arikamlani.com ✦ [linkedin.com/in/akamlani](https://www.linkedin.com/in/akamlani)

TECHNOLOGIST ✦ DESIGNER ✦ ARCHITECT ✦ DEVELOPER

Group Incubation & Innovation ✦ Research ✦ Systems Architecture

Solutions-orientated Technologist with over 15 years of experience developing innovative engineering solutions, formulating strategic opportunities, providing technology assessment, Proof of Concept (POC) designs, and independent research. Skilled in providing effective leadership in fast-paced, deadline driven environments through clear communication that fosters a client focused environment. Superior hands-on technical capabilities combined with a proven history of success at delivering large-scale challenging projects. Articulate communicator with strong written and verbal interpersonal skills, working closely with clients to maximize goals.

SELECTED HIGHLIGHTS

- Strong focus on alleviating user and technology pain points for new advancements and ideation
- Initiate new project proposals to executive board for formation of new business units
- Create new strategic partner relationships to facilitate project development
- Engage in Cross-disciplinary Technical Reviews
- Develop new initiatives to optimize systems performance and stability criteria

EDUCATION

Lehigh University, Bethlehem, Pennsylvania

Bachelor of Science in Electrical Engineering (1999)

Certifications:

General Assembly Data Science Certification: 2014

Independent Coursework/Workshops:

Big Data, Data Science, Machine Learning, Artificial Intelligence, Sabermetrics
Creativity & Innovation, Idea Incubation, Design Thinking

CORE COMPETENCIES

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|--|-------------------------------|------------------------|
| ▪ Research & Development | ▪ Data Analysis | ▪ Budgetary Oversight |
| ▪ Incubation & Innovation | ▪ Reference Designs | ▪ Process Improvement |
| ▪ Creative Ideation | ▪ Wireless | ▪ Technical Leadership |
| ▪ Strategic Planning | ▪ Full Life Cycle Development | ▪ Project Leadership |
| ▪ Prototyping, Proof of Concepts (POC) | ▪ Software & Design | ▪ Problem Solving |
| ▪ Vendor Engagement | ▪ Application Development | ▪ Business Development |

PROFESSIONAL EXPERIENCE

Nagra Kudelski Group ♦ San Francisco, CA ♦ 2012-2015

Leader in digital television, digital security, and public access control

Software Expert - Group Innovation

Technologist within R&D Innovation Group responsible for future Technology and Application Advancement, with the group reporting directly to the owner.

- Created project proposals and presentations to present to executive board, drawing on research findings, best practices and collaborative ideas from a team with diverse expertise.
- Brainstormed new ideas in relation to Intellectual Property (IP), creation of Patents, and formation of new business units.
- Executed multiple future generation technology research and assessment special project directives requested via the owner.
- Formulated new strategic Partner Vendor relationships to strengthen selected projects.
- Led Proof of Concept (POC) designs centered around low cost Long Range People Tracking. Design was focused on achieving the Active RFID range benefits with a Battery-Assisted Passive (BAP) RFID design, in a disposable low cost form factor.

SPORTVISION ♦ Mountain View, CA ♦ 2011-2012

Leader in sports technology and broadcast media entertainment products and solutions

Embedded Software Consultant - Motorsports Division

Special Projects Consultant reporting to office of CTO for Motorsports (NASCAR Trucks) division, advising in the development of vehicle tracking, local base station communication, and sensor measurement.

- Successfully developed custom in-house Embedded Linux Kernel (2.6.35) and Root Filesystem distribution.
- Achieved enhanced communication signaling between OMAP (OMAP3530) and AVR (Atmel).
- Decreased system boot time and improved system stability issues.
- Designed a custom feature that allowed for remote update images in Flash.

Broadcom ♦ Sunnyvale, CA ♦ 2011

From acquisition of Beceem Communications – Cellular division specializing in WiMAX and LTE

Principal Engineer – Systems Engineering, Cellular Division

Responsible for WiMAX and LTE radio network driver systems software architecture mobile reference designs.

- Directed platform requirements, architecture, and integration of vendor Voice over LTE (VoLTE) stack into reference design platforms (BCM21890, BCM Capri).
- Managed customer (RIM) migration platform architecture (OMAP 3530, 4430) from Linux to QNX.
- Led multi-site customer and group project management task coordination.
- Guided technology teams per next generation mobile platform processor architecture and requirements.

Qualcomm ♦ Raleigh, NC ♦ 2007-2010

Large international designer and manufacturer of next-generation digital mobile technologies

Staff Engineer – Computing and Consumer Product Division

Responsible for Windows Mobile (6.1/7) board bring-up and board support package (BSP) reference design software for the Snapdragon ARM Cortex architecture processors.

- Collaborated with multi-site technology teams to access processor requirements, develop new features, and integrate software from predecessor baselines. Engaged in cross-disciplinary technical reviews to improve upon hardware defects and timing issues.
- Delivered systems performance initiatives, e.g. boot time, system load ordering, perform monitors and latency.
- Enhanced feature development for the kernel, bootloader, device drivers and sensor slave devices.
- Advised OEMs in custom feature development and successfully achieving certification requirements.

TapRoot Systems ✦ Morrisville, NC ✦ 2003-2007

Provider of embedded software, specializing in Telephony, Wi-Fi, and BSP reference design services

Principal Engineer/Technical Lead – Mobile Products and Services

Responsible for leading early mobile Wi-Fi (802.11 a/b/g) wireless stack and BSP reference design deliverables.

- Delivered multiple OEM certified (Wi-Fi Alliance) secure (802.1x, WPA, WPA2) wireless stack designs and integration into the Symbian reference design for various Wi-Fi peripherals.
- Led Qualcomm reference design Windows Mobile service contract system software and subsystem deliverables (GPS, AP/BP communication, SD/SDIO) for the MSM7200/7500 processor series.
- Facilitated business development activities with OEM Presales support, reviewing Statement of Works (SOWs), and supporting RFI/RFP efforts.
- Strengthened cross-project process improvement initiatives, assisted in vendor and tool selections

Additional Experiences:

Panasonic Mobile Communications, Suwanee, GA: 2000-2003, Senior Software Engineer - Mobile Platforms

Verizon Wireless, Plymouth Meeting, PA: 1999-2000, RF Systems Performance Engineer

TECHNICAL SKILLS	
Desktop Applications	Microsoft Office, Libre Office
Frameworks	Foundation, Bootstrap, Jekyll
OOD Modeling	UML, OCL
Project Management	Agile Scrum (Pivotal Tracker)
Requirements Management	Doors
SCM/Tracking Applications	Git, Perforce, ClearCase, ClearQuest, SVN, PVCS, Bugzilla, PVCS
Databases	MySQL, SQLite, PostgreSQL
Programming	C, C++, Python, Javascript, Perl, Squirrel, SQL, HTML, CSS, ARM, VHDL
Operating Systems	Linux/Unix, QNX, Nucleus Plus, Windows Mobile, WinCE, Symbian
IDE/ICE	Eclipse, GDB, Trace32 Lauterbach, QNX Momentics IDE, Microsoft Visual Studio, Platform Builder, ARM Development Suite, Rational Rose RT, CodeWarrior

ADDITIONAL CREDENTIALS	
PATENTS	<ul style="list-style-type: none">▪ Interference Control in Wireless Communication; United States 13/887,039 (Filed: 05/03/2013)▪ Device Localization Based On a Learning Model; United States 14/311,077 (Filed: 06/20/2014)
INDUSTRY EXPERTISE	Consumer Electronics, Sports Technology, Media & Entertainment
INTERESTS/ACTIVITIES	Travel, Adventure Sports, New Experiences