

# RANGA MUVAVARIRWA

1490 Delgany Street ▪ Apt 631 ▪ Denver, CO 80202, USA ▪ (M) +1 571 315 2467 ▪ [muvavarirwa@yahoo.com](mailto:muvavarirwa@yahoo.com)

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## EXECUTIVE SUMMARY

- Entrepreneurial general manager with hands-on technology and operational leadership experience.
  - Product development leader with proven track record of driving rapid growth via innovative products and strategic differentiation.
  - Accessible communication style and philosophy based on values of dedication, excellence, integrity and openness.
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## SELECTED ACCOMPLISHMENTS

- Lead video platform strategy and integration for #2 MSO (Search & Discovery, VOD, cDVR, Video Delivery)
  - Led expansion of TWC's portfolio of complementary IP Video applications from 1 to 10 consumer device platforms.
  - Secured funding for and led development of industry-first HTML5 and IP-based Pay-TV application.
  - Established and sponsored the development of an industry-leading Big Data platform for IP Video.
  - Re-oriented Technical Product Owner team from waterfall to a scalable agile development process.
  - Recruited a strong architecture team through which I directed the development of a technology strategy for IP Video for TWC.
  - Led architecture of key infrastructure components for the #1 USA-based MSO, including CDN and Discovery.
  - Implemented large, multi-national (64 site) and VSAT-based wide area networks for the United Nations.
  - Four patents for graph-based navigation, media streaming, storage optimization and real-time analysis of high-volume usage data.
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## PROFESSIONAL EXPERIENCE

### CHARTER COMMUNICATIONS *(includes tenure with Time Warner Cable)*

#### Vice President, Product Development – Video Platforms, Charter Communication

2016 -

Product lead responsible for the video platforms roadmap (Search & Discovery, VOD, cDVR and Video Delivery).

- Define long-term vision and strategy for video platforms capabilities. Drive alignment on video product vision and initiatives across the architecture, engineering and operations organizations. Orchestrate delivery of video platform capabilities.

Lead cross-functional team that is responsible for the development of a long range plan for spectrum allocation/

- Obtained, consolidated and analyzed plant data from each of the legacy companies (140k Service Groups, 1500+ RF-lineups)
- Developed a 10-year model that, given a set of assumptions about bandwidth CAGR as well as constraints regarding plant configuration, computes the appropriate set of bandwidth supply measures (FTTH, Node Splits, plant expansion etc) for each SG
- Developed recommendations to CapEx optimal sequencing of bandwidth-supply increasing tactics required to meet anticipated demand.

#### Vice President, IP Video Product Development, Time Warner Cable

2011 - 2016

Founder and head of team chartered with the development of next generation IP Video applications for consumer owned and managed (COAM) devices. Led the development of technology-strategy for IP Video applications. Lead analysis of technology-options for delivering on the company's next generation Pay-TV offering. Delivered monthly presentations on technology-strategy options to CxO team.

- Led a large, multifunctional team through a two-year program to develop, integrate and deploy a cDVR solution (launched 12/16).
- Grew and led a cross-functional team of ~100 architects, application developers and technical product owners.
- Expanded portfolio of complementary IP Video applications from 1 to 10 consumer platforms over a 4-year period. Usage grew from 20k to >1.5M monthly-unique visitors over a three year period.
- Secured >\$20m in funding and led development of a next-generation Pay-TV navigator. Product will ship to 15M HHs by 2020.
- Delivered solution architecture for: HTML5 Pay-TV, App. Management, 3rd Party App. Integration, Cloud DVR and Analytics.
- Replaced waterfall process with scalable and agile development across CTG Video group (~400 employees). Velocity increased to ~12 releases per quarter.
- Co-developed product roadmap and aligned development priorities between delivery teams and the business

### COMCAST INTERACTIVE MEDIA (CIM)

2006 - 2010

#### Director of Product Planning and Development

Drafted product roadmap and corresponding budget (\$15m) for complementary IP Video applications (Xfinity). Created a consolidated set of reports to track status and performance of product development initiatives encompassing eleven (11) product managers:

- Defined and tracked success criteria and KPIs for portfolio of 18 products.
- Coordinated execution of cross-Platform roadmap through 2009 and syndication in 2010

### **Director of Architecture**

Led a multi-disciplinary team of four (4) experienced software architects. Ensured that technology-strategy and implementation architecture were aligned with business goals and product roadmaps.

- Performed technical due-diligence on external partners. Saved \$2m annually by migrating search platforms to open-source.
- Reviewed >20 potential acquisition/investment targets for Comcast Interactive Capital.
- Initiated solution-architecture development of Mashery-based API syndication platform (Code Big).
- Evaluated numerous recommender systems.

### **Principal Engineer**

Individual contributor responsible for evaluating open-source options for information retrieval, social networking, content distribution networks (CDN), network analysis, recommendations and personalization.

- Developed search results ranking algorithm for Comcast's XFINITYTV site, then supporting 4M monthly unique visitors
- Co-developed patented solution that powers XFINITYTV's "six degree connector" navigation tool / application

## **SUN MICROSYSTEMS** *(via acquisition of SevenSpace)*

**2003 - 2006**

### **Product Engineer**

Identified and implemented feature enhancements to managed services infrastructure. Employed Kaizen/Six Sigma methodologies to identify root causes of recurring outages within managed service practice.

Provided professional services to clients of a managed-services startup (SevenSpace). Network integration for large-enterprises and service-providers.

- Led a team of five (5) consultants on an 18-month project to develop content distribution network (CDN for Comcast).
- Designed and deployed secure and highly available WAN and data-center solution for IRS (HCTC program).

## **SEND TECHNOLOGIES**

**2002 - 2003**

### **Principal Engineer**

- Designed, deployed and provided initial support for the Carlyle Group's secure global network
- Designed and implemented network management system for the DC Government's WAN

## **DYNAMICS RESEARCH CORP** *(via acquisition of BurningTree Technologies)*

**2000 - 2002**

### **Principal Engineer**

- Designed, tested and deployed enterprise WANs and managed services solution for various Fortune 500 companies
- Researched the infrastructure investments by incumbent telcos to enable conditional access under 1996 Telecoms Act
- Performed technology audits and business process analysis for the manufacturer Rheem

## **THE UNITED NATIONS**

**1994 - 1999**

### **Team Lead – Network Development**

Led team of eight (8) engineers that were responsible for the development and operation of the UN's regional networks.

- Integrated 49 offices across seven (7) countries of the Former Yugoslavia, Italy and UNHQ (NYC) under a common WAN, (~2,800 employees). Regional data network provided significant operational flexibility to UN staff and peacekeepers across the region.
- Integrated regional offices across six (6) African countries under a common data network (supporting 1200 employees). Regional network enabled collaboration between economics across the African continent.

## **UNIVERSITY OF ZIMBABWE**

**1993 - 1994**

### **Software Engineer, Computer Aided Learning (CAL) Lab**

- Developed expert-systems-based tutorial software (C++) to augment engineering coursework (Smith Predictor systems).

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## **EDUCATION & CERTIFICATIONS**

**MBA, Finance & Management**, *The Wharton School, University of Pennsylvania, Philadelphia, PA*

**2008 - 2010**

**BS Electrical Engineering**, *Brown University, Providence, RI*

**1988 - 1991**

**International Baccalaureate**, *United World College of the Atlantic, Llantwit Major, Wales, UK*

**1985 - 1987**

**CCIE #5716**, *Cisco Certified Internetworking Expert (retired)*

**2000 - 2005**

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**PERSONAL INTERESTS:** Triathlon, Jazz, Poetry