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SUMMARY

- Shipped over 8 Telecom and Media software products designed and developed from scratch in a span of 13 years.
- Used lean methodologies to conduct business model search and discovery; Marketing research methods to develop insights on marketing strategy and pricing
- Strong technical experience in Broadcast/Consumer video and cable/IPTV markets; Deep understanding of strategies in the IT, telecom and media industry.
- Graduated from the MBA program at Haas school of Business at UC Berkeley (May 2015).
- Developing financial analysis background, CFA level II candidate;
- Broad skill-set and in depth knowledge of both hardware and software systems enable me to quickly learn and adapt to new technologies and skills.
 - Imaging and video algorithms development, IOS programming, Web development using Python and flask,
 GUI design and programming, Network systems programming, high reliability systems programming,
 distributed systems, Machine learning, Big data.
 - o C/C++, Objective C, Python, shell programming, hardware debug using logic analyzers and oscilloscopes
 - o Excel for financial analysis and IBM SPSS, Tableau, R.
 - o Project management using either Agile or Waterfall methods

CONSULTING PROJECTS

Associate intern at Three Bridges Ventures

May 2014 - Aug 2014

- Conducted industry analysis on industrial internet of things (IIOT) and created a report on opportunities.
- Analyzed the business plans of the portfolio companies and proposed new business model options.

Haas school of Business, UC Berkeley

Early stage venture search and discovery

Aug 2012 – Present

- Transcence is a startup focusing on developing products to help the deaf and hard-of-hearing community.
 - Used lean methodologies to perform customer discovery, evaluate product market-fit, validate the business model and build a minimum viable product.
 - Managed partnerships with Google, Reco technologies and within the Deaf community

Marketing research for EventBrite

• Conducted primary and secondary market research for Eventbrite an online event search website, to position itself as a primary online event listing site for its customers.

Pricing analysis

• Conducted conjoint survey and used cluster analysis to determine WTP of consumers of microwave ovens.

Thinker Tinker Consulting

Aug 2008 – Oct 2011

Founder and Lead developer

Products: Dr. Perricone and WTFatigue? iPhone applications, wireless fire alarm, VOIP device using Google voice.

- Performed customer discovery, gathered insights and translated insights into product features.
- Designed and developed embedded applications and led a team of graphic designers and developers to deliver based on customer requirements.

EXPERIENCE

Dolby Laboratories Inc.

Product Manager

Oct 2011 – Apr 2015

Determined and defined performance metrics for the Dolby conference phone satellite microphones and drove the
project cross-functionally to deliver the product on schedule and within budget. Defined pricing strategy by
assessing the competitive landscape.

Staff Engineer - Tilera Lead engineer in the Advanced Display and imaging group

The **PRM monitor** is an advanced display used in post-processing environment for color-grading and color gamut emulation.

- Architected software to drive a new solution for the PRM monitor that reduced cost by over 50%. Led a team of four
 engineers to develop both algorithm and user-interface management on the Tilera multicore processor
- Worked cross-functionally with QA, marketing and core algorithms teams to translate product feature requests into robust software modules
- Managed relationships with Tilera field application engineers and the broader R&D team within Dolby
- Ported proprietary display algorithm to run on the Tilera processor and developed software that took advantage of the multicore parallelism and Intrisics optimization offered by Tilera processor

Designed and orchestrated prototype demonstrations for trade shows

RGB Networks Inc. Oct 2006 – Oct 2011

Senior Staff Software Engineer - Platform

- Developed product requirements in conjunction with technical marketing team, authored high-level scope and design documents and performed tasks in a risk-managed and timely fashion for over 4 award-winning Cable/IPTV/Ad insertion products in a span of 5 years
- Responsible for embedded software development from conception through production on the host application.
 Developed drivers and configuration scheme for the RF/QAM output for both USM (multi-spectrum edge QAM device) and UQAM (Full spectrum edge QAM device)
- Designed and developed port-mapping application, privacy mode encryption handling, Gigabit Ethernet drivers and support for virtual MAC addresses for both **USM** and **DBM** (Dynamic bandwidth manager).
- Responsible for board bring-up and Linux rootfs/driver creation, installation and maintenance for **UQAM** and **RPM** (Repurpose module used for audio transcoding and integration) products. Added diagnostic tools and automated testing using python scripts. Maintained infrastructure software, build scripts, and design system software for **GCM** (Gateway Control Module).
- Setup demos and prototypes for tradeshows and conferences

Harman International/Margi Systems Inc.

Feb 2005 - Oct 2006

Embedded Software Engineer

- Reduced development costs significantly by porting the software used by Harman's automobile product to a very high quality consumer video product (Mark Levinson No51 DVD Player).
- Managed relationships with our partner companies: STMicro, Micronas and Mark Levinson
- Developed and debugged device drivers for SPDIF, I2S audio and setup communication between the audio post-processing chip and the ST5588 to synchronize and set up audio on the SHARC DSP.
- Improved the video filter settings to remove the "Chroma bug". Worked on synchronizing external video chip with the MPEG2 decoder
- Introduced paced fast-forward and fast-rewind at 2X, 4X, 8X and 16X speeds

Doremi Labs Inc. (acquired by Dolby Labs Inc.) Video Hardware Engineer

Nov 2002 - Feb 2005

- Participated in the complete development lifecycle of the **Orca MPEG2 Encoder** from designing a prototype to releasing the product to customer.
- Developed Boot code in assembly and C for the IBM PowerPC 440GP and implement low-level test routines to verify hardware and implemented a lightweight real time 'operating system', using a simple event-handling scheme. Developed custom device drivers for serial port, Ethernet, DVB-ASI, closed captioning and drivers to control VTRs via the Sony 9pin protocol.
- Demo product and gather technical requirements from customers
- Authored the operating manual for the product.

Multi-rate Signal Processing Laboratory, UT Arlington Research Assistant

Sep 2000 – Aug 2002

• Designed and developed a fast and efficient MPEG layer 3 Audio encoder/decoder using the Integer Modified Discrete Cosine Transform (MDCT).

Publications:

T. Krishnan and S. Oraintara, "A Fast and Lossless forward and inverse structure for the MDCT in MPEG audio coding", International Symposium on Circuits and Systems (ISCAS), May 26-29, 2002.

T. Krishnan and S. Oraintara, "The Integer MDCT and its application in the MPEG layer III audio", 10th DSP Workshop, May 2002.

EDUCATION

Haas School of Business, UC Berkeley: M.B.A May 2015

University of Texas at Arlington: MS in Electrical Engineering May 2002

University of Madras: BE in Electronics and Communication Engineering May 2000

AWARDS/ ACTIVITIES

- Graduate Fellowship at the University of Texas at Arlington
- Member of the Haas technology club and the Finance club
- Member of the Eta Kappa Nu (HKN) Electrical engineering honor society