
EDUCATION

M.S in Robotics Northwestern University	2017 – 2018
M.B.A. Santa Clara University	2002 – 2005
M.S. in Computer Science Worcester Polytechnic Institute	1994 - 1997
B.S. in Geophysics Indian Institute of Technology Kharagpur, INDIA	1990 - 1994

MS ROBOTICS COURSEWORK AT NORTHWESTERN UNIVERSITY

Robotic Manipulation	Fall 2017
Optimization techniques in Machine Learning	Fall 2017
Machine Dynamics	Fall 2017
Embedded Systems in Robotics	Fall 2017
Deep Learning from scratch	Winter 2018
Advanced Computer Vision	Winter 2018
Statistical Pattern Recognition	Winter 2018
Robotics Project – Tactile sensor assisted precision grasping	Winter 2018
Reinforcement Learning	Spring 2018
Probabilistic systems and Random signals	Spring 2018
Machine Learning	Spring 2018
Robotics Capstone Project	Spring 2018
Robotics Capstone Project	Summer 2018

RELEVANT SKILLS

PROGRAMMING LANGUAGES – C, C++, PYTHON**SOFTWARE PACKAGES, OS AND TOOLS – LINUX, ROS, OPENCV, TENSORFLOW, GITHUB, MATHEMATICA**

PRODUCT MANAGEMENT EXPERIENCE

PALO ALTO NETWORKS, Senior Director of Product Management **August 2015 to November 2016**

Responsible for defining Palo Alto Networks product direction, business models and partnerships required to succeed in Managed Security Service Provider and Cloud Security Service Provider segments.

- Lead Product management for offerings to Service Providers

- Lead Product management for defining new Security as a Service Solution hosted in the Cloud
- Developed Technical integration framework for SD-WAN solutions

HEWLETT PACKARD ENTERPRISE, Director of Product Line Management September 2013 to August 2015

Responsible for defining HP's Openstack and SDN strategy for NFV, define product direction and strategy, and develop business and technology partnerships in the NFV space. Enabling large Communication Service Provider (CSP) customers across the world to succeed in transforming their networks to a NFV Cloud environment.

- Lead Product management and strategy for Carrier Grade Openstack in NFV deployments
- Lead Product management and strategy for SDN in NFV deployments
- Lead the product definition and early business development for factory integrated, HW & SW systems – Converged system platforms to enable turnkey deployment of NFV Cloud (Virtualized NFV Infrastructure - NFVI)
- Lead the Virtual CPE solution definition and partnering strategy
- Working closely with significant technology and business partners to enable solutions and business development for HP's OpenNFV program

JUNIPER NETWORKS, Director of Product Line Management August 2006 - December 2012

Product Management leader for Juniper's EX8200 – Modular Ethernet switch deployed in Enterprise DC, Campus and Service Provider networks

Drove product from concept stage through launch and achieving \$100M+ direct revenues in three straight years and garnering #3 market share against entrenched competition

Drove product definition and strategy for next generation platform evolution and next generation Enterprise DC & Campus network architecture

CONSENTRY NETWORKS, Senior Software Engineer March 2005 – August 2006

Developed a Network Access Control solution to compete against Cisco's enterprise security architecture

- Defined future product features and roadmap
- Identified and developed strong relationship with strategic technology partner

SOFTWARE ENGINEERING EXPERIENCE

CISCO SYSTEMS, Senior Software Engineer and Project Lead October 1997 – March 2005

Lead the design and development of key software modules and packet forwarding architectures over three generations of the Catalyst 6500 product line – the world's largest installed base of modular Ethernet switches

Technology areas of contribution include – IPv4/v6 routing, L2 switching, MPLS & VPLS, QoS, L4-L7 security, Fabric and switching data plane implementation, Real Time Embedded OS

CASCADE COMMUNICATIONS (ALCATEL-LUCENT), Senior Software Engineer June 1996 – August 1997

Developed ATM signaling software stack for Cascade Communication's latest ATM and Frame Relay switch.