

RESUME - JOHN HARPER

EXECUTIVE PROFILE

John Harper is an experienced senior engineering manager, with proven ability managing engineering teams in both startups and large corporate environments. He is a strong and respected leader, with emphasis on execution and planning of creative technology applied to corporate business objectives. He is also experienced as a leader and innovator in complex systems design, and is an inventor of over 20 patents mainly in the field of networking.

EXPERTISE AND SKILLS

- Building, managing and motivating strong, creative engineering teams, delivering high-quality product on specification and schedule, for all aspects of system products including software, hardware and logic design.
- Managing groups of all sizes, from 10 in a startup environment up to 400, across international sites and cultures.
- Providing technical inspiration and leadership, with personal mastery of contemporary software and hardware engineering languages, techniques and methodology.
- Leading intellectual property, patent and standards activities; management and participation in the international standards process (IETF, ISO, ITU, ETSI, etc) and industry forums.
- Languages: bilingual in English and French, competent in German and Japanese.

PROFESSIONAL EXPERIENCE

ANAGRAN INC, Sunnyvale, CA
Vice President, Engineering

2006-2011

Anagran built a high-performance, economical broadband traffic manager, based on flow routing technology, aimed at the residential and wireless IP connectivity market.

- Led all aspects of engineering including software, hardware and FPGA development.
- Directed product strategy, working closely with sales, marketing and the CTO.
- Built the engineering team, and ensured that it remained strong and effective during subsequent expense control.
- Provided technical leadership and direction for several aspects of the company's product and operations, including: fine-grained TCP flow management, comprehensive Python scripting support, real-time inference-based malware detection.

CISCO SYSTEMS INC, San Jose, CA
Vice President, Engineering

2001-2006

Responsible for the routing, security and higher layer (layer 3-7) functions in IOS, the software that runs across the whole range of Cisco routing and switching products.

- Managed a team of up to 400 engineers, reporting to Senior VP of IOS.
- Managed remote teams in several locations including India (Bangalore), UK, France, Japan and several locations in the US.

- Initiated major quality enhancements in IOS through process change and technology improvements, as measured objectively through customer satisfaction surveys.
- Initiated and executed new router-based technologies including advanced VPN functions, rapid route convergence, traffic-dependent routing and multi-topology routing (allowing different traffic types to take different paths through the physical network).
- Created an engineering team in Tokyo, Japan, to take advantage of Japanese initiatives in mobility and IPv6, and better serve the Japanese market.
- Led Cisco's patent activities relating to network routing and related functions.
- Directed standards activities in the routing area, especially for IETF and ITU, covering new areas such as IPv6, IP Mobility and Quality of Service.

CISCO SYSTEMS INC, London, England
Director, Engineering

1999-2001

- Ran Cisco's UK IOS engineering team.
- Grew team from 25 engineers to 80 in a 12-month period.
- Managed relationship with parent organization in San Jose, and distributed organization across three sites (London, Edinburgh, and Valbonne in France).

Q3 CONSULTING LTD, Valbonne, France
Founder, CEO and Principal

1995-1999

- Acting VP Engineering/CTO for TPS Labs GmbH, a CRM startup in Munich, Germany (1998-1999)
- Built and led team of 6 to design broadband satellite communications system for Inmarsat, London, 1996-1999. System entered service in 2005.
- Developed specifications for standard-based networking for European Commission and ETSI.
- Successfully delivered numerous smaller assignments.

DIGITAL EQUIPMENT CORP, Valbonne, France
Engineering Manager and CTO, Telecommunications Business Group

1991-1995

- Managed team of 80 engineers building products to reinforce Digital's position as a primary supplier to the telecommunications industry.
- Designed and implemented C++ framework to simplify customer implementation of extensions to the TeMIP management system.
- Represented Digital as Board member of the Telecommunications Management Forum, an industry group promoting the use of open standards for managing telecommunications networks.

DIGITAL EQUIPMENT CORP, Reading, England
CTO and Network Architecture Manager, Wide Area Networks

1982-1991

- Led evolution of DECnet from proprietary protocols to open standards.

- Led design of Digital's first high-performance router, the DECnis 500, implemented industry's first 100 Mbit/sec router for FDDI.
- Led advanced development team which conceived several leadership products in the networking field.
- Directed Digital's participation in the OSI standards process, and chaired international standards group (ISO) dealing with network layer standards.

DIGITAL EQUIPMENT CORP, Reading, England
Principal Software Engineer

1974-1982

- Led implementation of SNA for Digital products.
- Implemented Digital's first object-oriented device driver, the terminal driver for RSX-11.

EDUCATION

1971-1974 University of Lancaster, UK, B.A. First Class, Computer Studies

PATENTS

- 5134610 Network transit protection
- 5136716 Session control in network for digital data processing which supports multiple transfer protocols
- 5251205 Multiple protocol routing
- 5305305 Message switching network monitoring
- 5307355 Method and apparatus for generating a 48-bit frame check sequence
- 5432776 Message network monitoring
- 5491692 Hybrid units for a communication network
- 5553085 Method and apparatus for generating a 48-bit frame check sequence
- 5870386 Method and apparatus for transparently bridging traffic across wide-area networks
- 6134642 Direct memory access transfer requiring no processor DMA support
- 6147976 Fast Network Layer Packet Filter
- 6445710 Method and apparatus for transparently bridging traffic across wide-area networks
- 6643515 Method and apparatus for registering a communication terminal with a satellite communication system
- 7016313 Method and apparatus for generating network topology information
- 7058016 Method and system for accelerating route calculation in link state routing protocols
- 7133418 Method and apparatus for allocating time slots within a frame of a TDMA frequency channel
- 7469141 Bandwidth allocation method and apparatus
- 7499445 System and method for routing ISIS traffic through unidirectional links of a computer network
- 7506194 Routing system and method for transparently recovering routing states after a failover or during a software upgrade
- 7633875 Method and system for accelerating route calculation in link state routing protocols
- 7707307 Method and apparatus for constructing a backup route in a data communications network
- 7885179 Method and Apparatus for Constructing a Repair Path Around a Non-Available Component in a Data Communications Network