

# Paul Boerger

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## Senior-Level Engineering Manager

An accomplished and dedicated professional with robust experience acquired over 20 years in product development, strategic planning, cross-functional leadership, and intellectual property. Skilled in guiding top-talent engineering teams, advancing leading-edge technologies, developing strategic alliances, and leading businesses to new growth by capturing emerging market opportunities through expert design and innovation. Hold credit for interacting effectively with cross-functional departments to streamline operations and achieve business success in fast-paced environments. Possess verifiable leadership, interpersonal, and communication skills that unify technical vision and execution. In addition, transform a low-performing team into a high-caliber workforce through clear communication, exceptional mentoring skills, and a proven ability to work with cross-functional and multidisciplinary teams. I have a solid track record in achieving the set goals and delivering my personal best at every step to provide optimal results. Success in multiple startup and new business creation initiatives.

## SKILL AREAS

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♦Award-Winning Designs ♦Agile Methodologies ♦ Software Development Life Cycle (SDLC) ♦Software Project Management ♦Strategic Technical Roadmaps ♦Scrum ♦Domestic & International Alliances ♦Scaled Agile Framework (Safe) ♦Project Management ♦Patents & Intellectual Property Portfolio Strategies ♦Distributed Systems (IoT) ♦Machine Learning ♦C, C++, HTML, CSS, JavaScript ♦Master-Level Electrical Engineer

## KEY ACHIEVEMENTS & HIGHLIGHTS

- 
- Managed large global teams, cultivated partnerships, and successfully implemented multiple AWS, front-end, back-end, and full-stack development initiatives.
  - Drove \$500 million in new revenue valuations by delivering on two strategic Intellectual Property Licensing (IPL) initiatives for HP.
  - Led development of several world-first innovations:
    - Electro-optical navigation (*optical mouse*)
    - LightScribe (*Opto-chemical printing*)
    - e-Copier and Cap-Share portable hand scanner
    - HP Connected Drive mobile, web, and back-end development
    - Digital Entertainment Center (*i-DEC*) and back-end content server
    - Photosmart e-Station tablet firmware and back-end services
    - Designed and innovated 7 generations of Media Smart & Data Vault Home Servers
    - Electro-Chemical Impedance Spectroscopy (EIS) for EV battery prognostics
  - Cultivated strategic alliances that tripled engineering services revenue year-over-year.
  - Developed and implemented technology roadmaps for IoT platforms & services, scanners, data storage, instrumentation, and digital content delivery.
  - Senior Product Owner of Commerce Back-End deployed in 11 countries.
  - Inventor of 17 US patents, 5 European patents, and author of 16 publications.
  - Technical Expert for multiple groups in the Blu-ray Disc Association (BDA) and received the 1st PSG Leadership Award for technology and IP contributions to Blu-ray.
  - 50 product steering committees/boards in robotics, data storage, servers, scanning, printing, and cloud services.
  - Successfully designed and executed technology roadmaps for IoT platforms & services, scanners, data storage, instrumentation, and digital content delivery.

## PROFESSIONAL EXPERIENCE

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### **IBOTTA, DENVER, CO (2021 – PRESENT)**

#### ***Senior Software Engineering Manager***

- Recruited and staff top talent engineering teams for the rapid development of a new, strategic partner enablement touchpoint.
- The IPN Partner Portal (ref. <https://dashboard.ibotta.com/>) was a brilliant success and was delivered more than a month before the commitment.
- Forged new innovative, IPN-branded ticketing system for partner support.
- Driving several innovations for all new partner E2E showcase.

### **OVANTEK, LOVELAND, CO (2009 – PRESENT)**

#### ***President & Chief***

- Consulting, forging key business alliances, and innovating IoT ecosystems.
- End-to-end product design and development of 60GHz, phased-array beamforming wireless HDMI, PC IO Bus & HW interrupt instrumentation, and technical development of several new "stealth" products.

### **VERGENT PRODUCTS, LOVELAND, CO (2017 – 2021)**

#### ***CTO & VP of Engineering***

- Successfully transformed strategic direction and revitalized company-wide productivity.
- Managed diverse engineering personnel, formulated strategies, and executed them.
- Accountable for generating comprehensive strategic roadmaps and tripled revenue through partnerships and new business alliances.

### **SNAPFISH LLC, FORT COLLINS, CO (2016 – 2017)**

#### ***Senior Product Owner, Commerce Back-End***

- Owned all commerce transactions for 11 countries.
- Maintained a high level of reliability using SW cloud solutions to drive many web-based alliances and manage backlogs (features and technical debt).
- Drove scalability and deployment strategies for the commerce engine and gifts categories.
- Promoted and launched large-scale deployment of a modernized address validation service.

### **HP, FORT COLLINS, CO (1991 – 2015)**

#### ***Senior SW Manager, R&D Project Manager, Master EE***

- Critical roles demonstrating exemplary technical dexterity and leadership in developing teams, systems, and architectures for information appliances, servers, storage, and *world-first* technology innovations.
- Drove productization of leading innovations in HW, SW, and FW while deploying ecosystems that spanned IaaS, PaaS, and SaaS.
- Directed multiple teams across HP divisions enabling the successful launch of innovative and highly rewarding emerging market opportunities.
- Drove global strategies that exceeded requirements in compute, CE, and storage markets.

## PREVIOUS EMPLOYMENT

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**ComByte:** Senior EE and ASIC Design Engineer, EE/FW/ASIC innovations in data storage

**Colorado Memory Systems:** Lead Electrical and Systems Engineer for drive-training

**Apogee Robotics:** Project Manager & Senior EE, Award-winning robotics, and automation designs

## EDUCATION

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**Bachelor of Science in Electrical Engineering | University of North Dakota, Grand Forks, ND**

### **US PATENTS**

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USPTO #10,102,213 ♦ System having an apparatus that uses a resource on an external device  
USPTO # 9,497,483 ♦ Method for generating and decoding a coded picture signal  
USPTO # 9,311,304 ♦ Storage subsystem data duplication policy  
USPTO # 9,152,492 ♦ Performing recovery of a headless computer  
USPTO # 9,063,941 ♦ System having an apparatus that uses a resource on an external device  
USPTO # 8,578,091 ♦ Providing data redundancy using an internal and external mass storage device  
USPTO # 8,554,995 ♦ Virtualized storage subsystem to mask redundancy complexity  
USPTO # 8,085,948 ♦ Noise Reduction in a System  
USPTO # 8,005,993 ♦ System and Method of a Storage Expansion for Network Attached Storage Device  
USPTO # 7,933,172 ♦ Method for Playing Content Using Master and Slave Optical Discs  
USPTO # 7,916,164 ♦ Labeling Methods and Apparatus Using Energy of Two Wavelengths  
USPTO # 7,865,710 ♦ Software Recovery without the use of a Keyboard, Mouse, Trackball, or Monitor  
USPTO # 7,822,997 ♦ Making a Storage Device Unusable until OS or System FW Recovery Invoked  
USPTO # 7,814,246 ♦ Translation of Data Storage Redundancy Configuration and Host Interface Type  
USPTO # 7,734,735 ♦ Automatic Configuration System and Method  
USPTO # 6,970,811 ♦ Hardware Modeling of LED Relative Brightness  
USPTO # 6,760,124 ♦ Software Determination of LED Brightness and Exposure

### **EUROPEAN PATENTS**

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#1839444 ♦ Picture coding apparatus and picture decoding apparatus  
#2307969 ♦ Storage subsystem & electronic device with controls that hide the details of the subsystem  
#1997109 ♦ Converting a still image in a slide show to a plurality of video frame images  
#1829029 ♦ Labeling methods and apparatus using energy of two wavelengths  
#2164262 ♦ Picture coding apparatus and picture decoding apparatus

### **SELECT PUBLICATIONS**

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- ♦ Embedded miniature Projection User Interface for NAS Device
- ♦ Home Server with Secure Memory Device for Locking Proprietary Software to Platform
- ♦ Pivoting Apparatus for Optimizing Remote Power Transfer in Digital Picture Frame System
- ♦ Identity Escrow for Constrained Information Mining and Group Knowledge Distillation
- ♦ Authentication by Characteristic Navigation Motions
- ♦ Method for Detection and Rejection of Attempts to Falsify Biometric Authentication
- ♦ Channel Royalty Pool for Blu-ray Supplemental Content Sales
- ♦ Hardware Innovation in HP's New Home Storage Server Products
- ♦ Remote Power for HP Digital Picture Frames
- ♦ Bare-Metal Recovery Innovation for Home Storage Server Products
- ♦ GPU Computationally Enhanced Home & Entertainment Server
- ♦ Parasitic Cantilever Fan Airflow Gen. by Modulating the Electro-Magnetic Field of Remote Power
- ♦ New Home Server Product Concept: HP Home Utility Server
- ♦ Constrained Layer Acoustic, Thermal & Vibration Sheath for Hard Disk Drives
- ♦ Mobile Event Verification Using Services-Based Model HP IPAQ "Agent"
- ♦ "A Solo Journey Through Personal Product Development", Midnight Engineering Magazine, p. 44 May/June 1993