Paul Boerger

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Senior-Level Engineering Manager

An accomplished and dedicated professional with robust experience honed over 20 years in end-to-end 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. Drove several key initiatives while masterfully building support across departments to streamline operations and achieve business success in fast-paced environments. Verifiable leadership, interpersonal, and communication skills that unify technical vision and harmonize execution. Transformed broken teams into a high-caliber workforce through clear communication, exceptional mentoring, and a proven ability to work with a wide variety of personality types, cross-functional leadership, and multidisciplinary teams. Success in multiple startups and championed several new business creation initiatives.

SKILL AREAS

♦*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

ALLEGION, GOLDEN, CO (2022 – PRESENT)
Readers & Credentials Firmware Engineering Manager

→ Driving innovations in NPD platforms for IoT, standalone readers, and reader sub-systems for access control products and credential technologies.

IBOTTA, DENVER, CO (2021 – 2022)
Senior Software Engineering Manager

→ Recruited and staffed top talent engineering teams for the rapid development of a new, strategic partner enablement touchpoints.
→ The IPN Partner Portal (ref. https://dashboard.ibotta.com/) was a glowing success and was delivered more than a month before the commitment.
→ Forged crucial innovations for partner onboarding showcase.

OVANTEK, LOVELAND, CO (2009 – PRESENT)
President & Chief

→ Consulting, forged key business alliances, and drove innovations in 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

→ Transformed technical strategic direction and revitalized company-wide productivity updated tools & processes.
→ Managed diverse engineering personnel and drove several innovations in stealth technologies.
→ Executed 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 services and transactions for 11 countries.
→ Maintained a high level of reliability using SW cloud solutions to drive many web-based alliances.
→ Managed scalability strategies and deployment logistics for the commerce engine, address validation, and gifts.

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.
→ Architected & executed global strategies that exceeded requirements in compute, CE, and storage markets.

PREVIOUS EMPLOYMENT

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

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

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US PATENTS

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

#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 AUTHORED PUBLICATIONS

⬧ 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