Peter Hunnisett, B.A.Sc., M.B.A.

Software Development Manager and Technical Lead

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Software development manager and technical lead with international experience building embedded, web, cloud, and desktop products in local and remote teams. Complementary business skills in product management, project management, process improvement, business mergers and acquisitions, operation analysis and optimization, and sales.

Software Toolbox

JavaScript/TypeScript, C, C++, Assembler, sh

Vue, AngularJS, Angular, Node.js, NestJS

Apollo, GraphQL, Auth0, D3.js, Stripe

MongoDB, Redis, Firebase

Docker, Kubernetes, GitLab, AWS

VxWorks, INTEGRITY, ThreadX, pSOS+

Jira, Azure DevOps, Git, Mercurial, Subversion

Areas of Expertise

Leading Local and Distributed Teams

Software Design and Development

Project Planning and Execution

Agile Collaboration

Process Improvement

Product Management

Sales and Sales Support

Experience

2021 – now **Manager, Software Development**, *SMART Technologies*, Calgary

Managed a young remote team of software developers responsible for enhancing the client side of an educational SaaS product for lesson creation, sharing, and delivery.

- Organized and ran a 3-day hackathon for 40+ developers to build value-based innovations while, at the same time, providing a morale, skill, and team building reward. Most promising projects were studied, refined, and scheduled for product inclusion.
- Guided a fully remote development team through a rejuvenation phase increasing their social cohesion, product knowledge, technical skills, and productivity with deliberate actions such as TDD, CI, pair programming, presentations, focused team learning and projects, aligned individual and team goals, weekly lunches, and monthly game days.
- Launched and guided initiatives to improve build reliability and notification, product performance and reliability, product security via software supply chain hardening, and developer onboarding productivity.
- Created junior and senior job postings and conducted screening, initial technical, and behavioural interviews for at least 5 positions.

Toolbox Used: JavaScript, Vue, HTML, CSS, Sass, Firebase, Splunk, Mixpanel, Sentry, Azure DevOps, Agile, Process Improvement, Project Management, People Management, People Growth, Hiring.

Experience Continued

2005 – now **Principal and Technical Lead**, *Independent*, Various locations in CA and USA

As the principal consultant, located and completed technology and business engagements on time enabling clients to achieve their goals.

- Architected and implemented a web client, admin, and server for a real-time auction website.
- Implemented a secure chain of trust bootrom for a key fob sized battery powered FIPS 140-2 compliant multi-factor authentication biometric security radio built on a custom secure Broadcom ARM9E SoC.
- Developed, as the software and architecture prime of a multi-disciplinary team, a custom graphics card based around the ATI M9 graphics chip. Additionally, provided customized on-site customer demos and follow up support to help the sales team close the first $10 million dollars in sales of this new product.
- Built a diverse set of data visualization websites and data automation projects.
- Implemented a Docker, Kubernetes, and GitLab based CI/CD pipeline, improving the agility of a legacy B2C web client/admin/server product.
- Conducted software and designer interviews and provided hiring recommendations.
- Independently identified and created plans for elimination of waste in products and processes to improve developer agility and happiness (e.g., reducing test execution from 120+ to 10 minutes, improving the on-call experience, and dockerizing products).

Toolbox Used: TypeScript, JavaScript, HTML, CSS, Sass, Tailwind, C++, C, Assembly, Python, C#, Visual Basic, Bash, AngularJS, Angular, Tailwind, Auth0, Stripe, Authorize.Net, REST, GraphQL, WebSockets, Node.js, NestJS, Tornado, MongoDB, Redis, Firebase, D3, OpenGL, Jest, AWS (ECS, ECR, EKS, S3, SES, Cloudwatch), Webpack, Gulp, Docker, Kubernetes, Excel VSTO/Interop, USB, FAT, bare metal, VxWorks, velOSity, ThreadX, INTEGRITY, Linux, Windows, Device Driver, Board Support Package, Cryptography, Hardware Bring Up, Jira, Jenkins, Git, Mercurial, Subversion, Agile, TDD, Behave, DevOps, Real-time, Project Management, People Management, Hiring, Product Development, Product Architecting, Project Management, Vendor Management, Sales Support.

2001 – 2005 **Software Development Manager**, *TransGaming Technologies*, Ottawa and Toronto, CA

Managed global team responsible for developing all Linux products including near monthly releases for subscribers, OEM, and published titles.

- Designed and instituted agile development processes resulting in a doubling of release frequency, a reduction in defects, and a 100% increase in product revenue.
- Managed a development team that spanned 12 time zones.
- Lead developer for Kohan series of games ported from Windows to Linux. Performance enhancements made the Linux version faster than original native version.
- TransGaming Technologies lead for multi-company proof of concept binary port of x86/Windows game title to MIPS/Linux target (i.e. PlayStation 2).

Toolbox Used: C++, C, Assembler, Python, OpenGL, x86, MIPS, Linux, Windows, Wine, Graphics, Agile, Portability, People Management, Process Development, Product Management, Release Management.

Experience Continued

1994 – 2001	**Team Leader and Platform Architect**, *Nortel Networks*, Ottawa, CA and Harlow, UK

Progressive software development and leadership responsibilities on 3 separate telecommunication data products in Canada and the United Kingdom.

- As team leader oversaw a group of 6 full-time employees, contractors, and students.
- Reduced load build time 6-fold, resulting in greater designer productivity.
- Greatly improved product reliability, as platform architect, by ensuring the quality of all software design and submission.
- Analyzed and implemented real-time enhancements reducing call set-up time from >100ms to <10ms.
- Adapted an automated code test framework to embedded platform/OS and created an automated regression suite for low-level system software.
- Implemented support and performed initial board bring-up for a hardware upgrade to optical inter-node links resulting in the sale of at least 500 upgrades.

Toolbox Used: C++, C, assembler, VxWorks, pSOS+, SOS, People Management, Product Architecting, ATM, VoATM, VoIP, High Availability, Real-time, Multi Node, 99.999% Uptime, CUnit, Clearcase.

Open Source Contributions

For recent open source contributions see https://github.com/phBalance.

Past contributor to several other open source software projects (available on request).

Technical Volunteer Work

2022 – now	Chair for Bow Valley College's Software Development Diploma and Post Diploma program advisory committee.

Education

1991 – 1996	Bachelor of Applied Science (B.A.Sc.), Engineering Science, University of Toronto
2008 – 2011	Master of Business Administration (M.B.A.), University of Victoria