Ryan F. Borchert

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Engineering Leader and Strategic Technology Executive

Engineering leader with 19 years of experience building and scaling high-performance teams while driving the design, development, and life cycle management of innovative software systems and industrial control solutions. Experienced coach and mentor with a track record of developing engineering talent, fostering collaborative cultures, and building leadership capabilities across global operations. Skilled in cross-functional collaboration and stakeholder management, effectively bridging technical and business stakeholders to drive organizational alignment and consensus across diverse teams. Expert in aligning complex technical architectures with strategic business goals, leveraging AI tools and automation to optimize software delivery, enhance operational efficiency, and reduce costs while maximizing team productivity. Experienced in project budget management and forecasting with accountability for cost tracking, variance analysis, and financial performance on projects ranging from $100K to over $8M, delivering results through both technical excellence and strong people leadership.

CORE COMPETENCIES

Strategic Roadmap Development ○ Cross-Functional Leadership ○ Agile & Lean Methodologies ○ Process Optimization ○ Risk Mitigation ○ Mentorship & Talent Development ○ Program & Project Management ○ Product Lifecycle Management ○ Vendor & Supplier Management ○ Data-Driven Decision Making ○ Software Development Leadership ○ Cross-Functional Team Collaboration ○ Cloud & Native Application Development ○ Customer-Centric Product Development

WORK EXPERIENCE

Opus IVS

Director of Engineering Reporting to CTO

Dexter, MI ○ September 2023 – Present

- Orchestrated agile transformation initiatives, adopting Scrum and Kanban methodologies, resulting in a 20% reduction in delivery cycles for features and defects
- Implemented proactive testing strategies, reducing defect rates by 10%, which lowered costs related to rework and boosted product quality
- Championed cross-functional collaboration between engineering and product management, reducing requirement turnaround times by 10%, leading to faster decision-making
- Led a globally distributed engineering organization of 16 engineers across 4 cross-functional teams, establishing efficient communication channels to maintain productivity across time zones
- Implemented lean software development practices and automation workflows, boosting operational efficiency and reducing overhead
- Drove the adoption of DevOps practices within in-house teams, streamlining development processes and reducing deployment time by 50%, enhancing the overall quality of cloud and native applications, leveraging AWS and Azure platforms
- Cultivated a high-performance engineering culture, driving professional growth through mentorship and leadership
- Balanced workloads and responsibilities between front-end and back-end teams, fostering seamless integration of user interface and server-side functionalities while maximizing overall team productivity

Balance Technology Inc

Director – Engineering & Operations Reporting to COO

Whitmore Lake, MI ○ August 2021 – September 2023

- Led the development and commercialization of automation systems, integrating advanced hardware and software solutions for precision measurement and testing across automotive and aerospace sectors, resulting in enhanced product functionality and customer satisfaction
- Directed program management, engineering, and manufacturing operations, ensuring alignment with strategic objectives and delivery of $30M+ in annual sales

- Spearheaded Continuous Improvement initiatives, implementing lean principles, automating processes, and establishing performance metrics to drive gains in operational efficiency
- Facilitated cross-functional collaboration between engineering, product, and customer-facing teams to deliver high-quality software solutions tailored to customer needs, improving response times and customer satisfaction
- Partnered with Sales to onboard new clients (Lucid, Rivian), fortifying customer relationships and capturing several million dollars in new business
- Provided technical guidance in system architecture for embedded controls, electrical design, software, and industrial automation
- Cultivated strategic vendor relationships to maintain quality and on-time delivery of materials, components, and services
- Managed projects ranging from $100K to over $8M, fostering strong customer relationships through consistent communication and solution-oriented approach

Electrical & Systems Engineering Manager Reporting to VP - Operations
Whitmore Lake, MI ∘ August 2019 – August 2021
- Spearheaded architecture and design of hardware and software control systems using C++, C#, Python, and PLC ladder logic
- Implemented processes and quality gates to drive efficiencies, mitigate risks, and ensure adherence to industry standards
- Mentored and developed engineering staff, resolved complex design challenges, and maintained productive partnerships with external vendors and contractors

New Eagle

Sr. Software Engineer / Manager
Ann Arbor, MI ∘ February 2017 – August 2019
- Promoted from Sr. Software Engineer to Department Manager within nine months
- As Department Manager, oversaw and supervised the development team responsible for New Eagle's embedded Model Based Development platform
- Served as the lead developer for Raptor-Cal, a PC-based tool for programming and calibrating ECUs, overseeing the design, implementation, and maintenance of features including CAN and J1939 protocol support, RP1210 standard implementation, custom display creation, and data logging capabilities
- Developed desktop-based tools supporting the embedded Model Based Development platform using C#, WPF, .NET, MATLAB, and C that enabled engineers to create complex control systems on embedded targets without extensive programming knowledge
- Introduced automated UI testing using MSTest and Fla.UI Frameworks, reducing release candidate testing time by two days per release
- Assembled product and project requirements by collaborating closely with stakeholders and engineering teams, prepared accurate quotes, and actively guided the development life cycle
- Collaborated closely with the marketing team to develop compelling advertising materials and engaging blog posts, strategically driving interest in our products and engineering services

Balance Technology Inc

Sr. Software Engineer / Team Lead
Whitmore Lake, MI ∘ March 2006 – February 2017

EDUCATION

Lake Superior State University ∘ B.S. Electrical Engineering   May 2005 ∘ Sault Ste. Marie, MI

TECHNICAL EXPERTISE

Software Development (C#/.NET, C/C++, Python) ∘ Automation & Control Systems ∘ Process Automation ∘ Machine Vision ∘ Embedded Systems ∘ Hardware Development

CERTIFICATIONS

Automotive Functional Safety (ISO 26262)