TODD F. BARTELT

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SOFTWARE DEVELOPER

Experienced software developer, project manager/analyst, engineer and problem-solver. Articulate, dependable, with an innate ability to see both overlooked problems and unexpected solutions. Gives balanced focus to both technical details and overarching project goals. Specialties include full-stack web development, warehouse management software, and machine vision.

SUMMARY OF QUALIFICATIONS

- 15+ years of experience in **software development and project management**.
- Outstanding ability to **critically analyze and identify improvements** for designs and processes.
- **Exceptional communication skills**, both written and verbal, with an eye toward promoting teamwork and collaboration.
- Focused on building **strong relationships with customers**, whether internal or external, by providing thorough training and ongoing support.
- **Proven leader** who uses books, podcasts and workshops to continually advance a command of leadership principles and strategies.

DEVELOPMENT SKILLS

- HTML, CSS, Bootstrap
- JavaScript, jQuery, AJAX
- Node.js, Express
- SQL, MySQL, Sequelize, Firebase
- JSON, XML
- VB.NET, C++, C#

PROJECT MANAGEMENT SKILLS

- Microsoft Office
- Microsoft Project
- Asana, Trello
- SharePoint
- Confluence, Jira

WORK EXPERIENCE

Engagement Director at Kaw Prairie Community Church (Lenexa, Kansas) *2017-2019*

- Oversaw participant engagement, volunteer placement, small groups and discipleship classes, as well as many aspects of communication, administration and first impressions.

Projects

- Reimagined and relaunched an ailing membership paradigm, bringing new energy and warmth to the concept of membership in the organization.
- Designed, recruited and trained a new volunteer team with the purpose of coaching attenders toward increased involvement.
- Led the adoption of project management software (Asana) by the staff team, increasing accountability, follow-though and communication.

Project Analyst at AmerisourceBergen Corp. (Chesterbrook, Pennsylvania) *2014-2017*

Secure Supply Chain Project

- Designed changes to the warehouse management software for a nationwide network of distribution centers, bringing them into compliance with new federal legislation.
- Took the lead in understanding the legal and technical requirements of the project, becoming the team's go-to expert.

- Coordinated pilot testing with warehouse leadership, and trained hourly workers on new software as part of testing using physical product on the warehouse floor.
- Used test and production data to recommend a threefold expansion of a manual put-wall process area at a cross-dock facility.
- Presented project goals and progress to team members outside the project in order to create wider organizational understanding of the impact of the SSC project.

Network Expansion Project

- Conducted testing of warehouse software programs, automation and manual processes for a highly-automated, 415,000-sq.-ft. new distribution center outside NYC.
- Tested manual-pick processes and various material handling equipment, including Order Storage & Retrieval (OSR) and Automatic Picking Systems (APS).

Software Engineer at CI³ Integrators (Lenexa, Kansas) *2009-2013*

- Integrated building automation systems with custom user interfaces using Wonderware and Microsoft Visual Studio (primarily C++/C#).
- Configured and troubleshot a variety of access control & video surveillance systems.
- Planned, coordinated and executed upgrades of customers' building automation systems.
- Worked with customers to construct interfaces between security and HR databases.
- Strengthened customer relationships by providing training and customized system documentation.

Machine Vision Application Engineer at Interactive Design, Inc. (Lenexa, Kansas) *1999-2009*

- Designed, assembled, installed and supported the implementation of automated inspection equipment utilizing machine vision technology to improve quality and efficiency.
- Adept at designing sophisticated HMIs to meet customer needs, giving them better control over — and real-time data about — the inspection process.
- Managed all aspects of projects, from initial concept to final testing and customer training.

Software Development

- Designed creative algorithms in VB.NET and C++ to solve quality and product handling problems with machine vision products, including Cognex's VisionPro API and In-Sight sensors.
- Wrapped vision applications in intuitive, user-friendly operator interfaces.

Testing and Installation

- Simulated the customer's manufacturing process conditions using good and defective product, and rigorously tested assembled systems both before and after installation.
- Fully met customer expectations by providing turnkey installations that immediately fulfilled quality objectives.

EDUCATION

- Full-Stack Web Development Program, University of Kansas Professional and Continuing Education. *Anticipated graduation date: November 2019*
- MS Mechanical Engineering, University of Wisconsin-Madison
- BA Physics and Mathematics, Luther College, Decorah, Iowa

PROJECT EXAMPLES

- Successfully co-designed and implemented a graphical software application integrating the access control and video surveillance systems of an international corporation.
- Developed a first-of-its-kind machine vision inspection system, capable of detecting print defects as small as 1/72nd of an inch anywhere on a letter-sized medical label.
- Developed a vision system to measure post condition and label location/integrity on a range of automotive batteries. The system stitched images together to achieve the needed resolution.
- Designed a fast algorithm for visual detection of mixed printed paperboard stacks and successfully integrated the inspection with an existing robotic palletizing system.
- Developed an inspection technique (U.S. Patent 6959108) for brass ammunition cases, leading to the sale of four subsequent systems.
- Utilized SolidWorks to design an automated work cell for the hot stamping, labeling and assembly of collapsible plastic crates.
- Utilized SolidWorks to design a lightweight end-effector for robotically handling and assembling metal transformer core laminations.