

Christopher VanOosterhout

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Professional Summary:

Robotics and Automation Engineer with a background in leading the development of automated systems, robotic integrations, and continuous improvement initiatives. Experienced in software development, 2D/3D sensing, point cloud processing, and industrial I/O systems, delivering reliable, data-driven solutions.

Work Related Experience:

Worked extensively with Staubli robots in aseptic, surgical, general industries and food environments
Developed a C++ constrained FABRIK kinematic solver for a 7-axis collaborative kuka IIWA
Automation leveraging 2D and 3D sensors including magnetic, vision, and lidar
C++ application development with extensive use of threading and socket communication
Implement Asyrl feeders and create Cognex jobs for new and retrofit applications
Experience with Profinet, Profibus, Ethernet/Ip, and EtherCat communication protocols
Project development with Allen Bradley and Beckoff PLCs

Employment:

Automation Manager

<i>Flex LTD,</i>	Columbia, South Carolina	2025-Present
Identifying and prioritizing site-wide automation and AI opportunities		
Developing scopes of work and business cases for automation initiatives		
Leading cross-functional teams and coordinating with global teams and integrators		
Leading automation projects from concept through implementation		
Presenting automation priorities and strategy to site and global leadership		

Advanced Engineering

<i>Staubli Robotics,</i>	Duncan, South Carolina	2021-2025
Manage and support several robot application and software project concurrently		
Develop automation solution that required network communication between multiple robots		
Troubleshooting and development in existing code to meet customer's needs		
Communication using ProfiNet, Ethernet/IP, Profibus, Modbus EtherCat and TCP/IP		

Software Engineer

<i>Link Engineering,</i>	Ottawa Lake, Michigan	2019-2021
Tasked with designing and implement a new application to expand product line		
SQLite data management for several control channels up to 4000Hz		
Utilized C++, C#, MFC, Winforms, CLR, SQLite, factory pattern, and protobuf		

Software/Robotics Engineering

<i>Capstone Surgical Technologies,</i>	Troy, Michigan	2018-2019
3D rendering to real world robot path generation for autonomous spinal surgery		
Implemented real-time Kuka IIWA's FRI for dynamic pathing using Java and C++		
Utilized C++, Java, multiprocess communication and Winform		

Software Engineering Intern

<i>JR Automation,</i>	Holland, Michigan	2016-2018
Worked within the advanced applications group		
Developed and implemented real time data acquisition applications		
Utilized 3D sensors, Kuka and Fanuc robots, Beckoff PLC, C#, and WPF		

Continued Educational Activities:

Devdept 3D and basic Unity3D application development
Platform ball balance: one solution using resistive touch screen another using vision
Algorithm development for path generation from cad models using 3D feature extraction

Education:

<i>Grand Valley State University:</i>	GPA 3.8	2018
Bachelor of Science in Engineering	Computer Engineering	

You can visit my LinkedIn at: <https://www.linkedin.com/in/chris-vano-3b54b4126/> and portfolio at: www.vanoostc.com