

Cas Ziemer

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Professional Experience

Senior Embedded Software Engineer
Rockwell Automation

April 2022 - January 2024
Cleveland, OH

Rockwell Automation is the largest company in the world dedicated to industrial automation software, hardware, and services including Allen-Bradley products such as Logix controllers

- Developed cross-platform software architecture in Python, Java, and C++ that automates the build, test, and continuous integration of firmware to reduce time-to-market by an average of 15% per product release
- Grew a bundle of ad-hoc Python scripts into a modern, object-oriented 500+ Python package ecosystem of common libraries used by thousands of internal tools, tests, automation scripts
- Developed cutting-edge software-defined architecture for industrial automation
- Guided more than 20 Agile trains on end-to-end lifecycle of tests and best practices

Embedded Software Engineer
Rockwell Automation

March 2019 - April 2022
Cleveland, OH

- Developed embedded software test infrastructure combining Python, Groovy, and shell scripts deployed to Jenkins and proprietary build automation systems that reduced false-positive failures by 94%
- Coordinated conversion of more than 5000 Python 2 scripts to modern Python 3 by designing migration processes, running training sessions, and fielding technical questions to prevent bugs and enable new language capabilities
- Led successful on-time release of new software features by coordinating anomaly resolution, developing custom testbeds, and communicating milestones with stakeholders to enable new customer workflows
- Mentored and trained new employees by guiding them through internal processes, best practices, and new-hire lessons to help them become successful engineers

Associate Embedded Software Engineer
Rockwell Automation

June 2017 - March 2019
Cleveland, OH

- Developed embedded software in C/C++ and Python for industrial automation devices deployed to manufacturing and logistics applications including consumer goods production, raw material processing, and robotics.

Software Engineering Intern
RedZone Robotics

May 2016 - September 2016
Pittsburgh, PA

- Created a Python tool to automate functional testing and diagnostics capture that reduced maintenance costs for malfunctioning pipeline inspection robots

Associate Electrical Design Engineering Intern
C3 Controls

May 2015 - September 2015
Pittsburgh, PA

- Designed, prototyped, and developed multi-mode LED and piezoelectric buzzer electronics used in signaling modules for manufacturing and warehouse applications.

Skills

Programming: Python, C/C++, Groovy, Go

Software: Linux, Git, GitLab, Jenkins, Bash, PyCharm

Organizational: Agile, SAFe, Scrum, Kanban

Education

Bachelor of Science (B.Sc.) in Electrical Engineering
Case Western Reserve University

Cleveland, OH

Bachelor of Arts (B.A.) in Physics
The College of Wooster

Wooster, OH