

MAXWELL HIGDON

SENIOR HARDWARE ENGINEER

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PROFESSIONAL OVERVIEW

Mechanical Engineer with expertise in hardware design, system integration, and global field support. Currently a Senior Engineer at Ricoh USA, leading cross-functional teams on deployment and enhancement of Continuous Form Inkjet systems. Skilled in system-level redesigns, troubleshooting, and technical advisement. Brings hands-on experience in CAD, thermal analysis, and manufacturing, with a project background in assistive technologies and cooling energy systems.

WORK EXPERIENCE

Senior Engineer, Hardware

Ricoh USA, Boulder, CO | 2025- Present

- Led cross-functional teams in the implementation of site-specific modifications for the Ricoh Pro VC80000.
- Designed improved plumbing systems for the transport of cooling fluid from a chiller system.
- Maintain on-call availability to deliver critical field support and issue resolution 24/7 across global time zones.

Associate Engineer, Hardware

Ricoh USA, Boulder, CO | 2023- 2025

- Delivered comprehensive worldwide field support for the full range of Continuous Form Inkjet products.
- Assisted in multiple installations of the newest line of Continuous Form Inkjet product, the Ricoh Pro VC80000 around the world.
- Revised engineering drawings for custom component fabrication.

Student Intern II, MEP

Olsson, Denver, CO | 2023

- Used Revit and AutoCAD to model HVAC and plumbing systems to be installed in hospitals and commercial buildings.
- Developed reference standards for company-wide use in Trace3D, Revit, and AutoCAD.

Engineering Intern

Cole Garner Geotechnical, Westminster, CO | 2021

- Researched geothermal pile heat exchangers, making use of ground temperature and hollow piles to cool water for use in natural gas compressors.
- Developed a predictive tool to estimate temperature change and heat exchange across varying site conditions.

EDUCATION

B.S. Mechanical Engineering

University of Colorado, Boulder
2023

SKILLS

- SolidWorks
- GD & T
- AutoCAD
- Troubleshooting

ACHIEVEMENTS

Certified SolidWorks Associate
2020

Recognition Award for Onsite Support Excellence
Ricoh USA
2025

Recognition Award for Business Development
Ricoh USA
2025

PROJECT EXPERIENCE

Wheelchair-Compatible Motorized Disc Launcher
QL Plus, Boulder, CO
2022-2023

Assistive Audio Regulation Tool
University of Colorado, Boulder, CO
2019-2020